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OM nucleic - nucleic search, using sw model

Run on: February 19, 2004, 18:40:48 ; Search time 96 Seconds
(without alignments)
7272.169 Million cell updates/sec

Title: US-09-849-980B-2

Perfect score: 1258

Sequence: 1 GGCTCTGACTGGGACACA.....AGCAAGGCTTCCGACAAA 1258

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA.*
1: /cgn2_6/ptodata/2/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/2/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/2/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/2/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/2/ina/PTUS_COMB.seq:*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1258	100.0	1258	3	US-09-381-810A-2
2	179	14.2	536	4	US-09-621-976-17479
3	145.8	11.6	476	4	US-09-621-976-17480
4	124.2	9.9	912	4	US-09-252-991A-5479
5	124.2	9.9	2556	4	US-09-252-991A-5479
6	123.8	9.8	930	4	US-09-489-039A-3411
7	108.6	8.6	987	4	US-09-489-039A-2135
8	106.2	8.4	197	4	US-09-621-976-13266
9	105	8.3	960	4	US-09-489-039A-2828
10	89.8	7.1	636	4	US-09-252-991A-5464
11	78.4	6.2	849	4	US-09-543-681A-4103
12	78.4	6.2	2049	4	US-09-489-039A-3424
13	71.4	5.7	12145	3	US-08-968-563-19
14	71.4	5.7	12145	3	US-08-968-563-19
15	71.4	5.7	12145	4	US-09-369-796-1
16	71.4	5.7	12145	4	US-09-307-973A-10
17	71.4	5.7	12145	4	US-09-641-652-1
18	60.6	4.8	1830121	4	US-09-557-884-1
19	60.6	4.8	1830121	4	US-09-643-990A-1
20	58.4	4.6	1408	1	US-08-447-554-3
21	58.4	4.6	1408	1	US-08-448-160-3
22	57.4	4.6	1081	4	US-09-372-422A-33
23	56.6	4.5	1116	4	US-09-372-422A-41
24	54	4.3	1375	4	US-09-372-422A-37
25	53.2	4.2	2520	4	US-08-961-527-226
26	50.4	4.0	1485	4	US-09-372-422A-39
27	49.8	4.0	939	4	US-09-252-991A-15282

c	28	49.8	4.0	1629	4	US-09-252-991A-15397	Sequence 15397, A
	29	49.8	4.0	2112	4	US-09-252-991A-15383	Sequence 15383, A
	30	49.8	4.0	12665	4	US-08-961-527-134	Sequence 134, Appl
	31	49.6	3.9	1069	4	US-09-372-422A-7	Sequence 7, Appl
	32	49.6	3.9	1333	4	US-09-372-422A-9	Sequence 9, Appl
	33	47	3.7	1206	4	US-09-372-422A-13	Sequence 13, Appl
	34	46	3.7	1158	4	US-09-372-422A-21	Sequence 21, Appl
	35	44.6	3.5	1217	4	US-09-372-422A-11	Sequence 11, Appl
	36	44.2	3.5	1153	4	US-09-372-448A-5	Sequence 5, Appl
c	37	44	3.5	7218	1	US-08-232-463-14	Sequence 14, Appl
	38	43.8	3.5	1304	4	US-09-372-422A-15	Sequence 15, Appl
	39	43.8	3.5	1384	4	US-09-372-422A-17	Sequence 17, Appl
	40	43.6	3.5	1193	4	US-09-372-422A-23	Sequence 23, Appl
	41	43	3.4	587	3	US-09-053-702-3	Sequence 3, Appl
	42	40.4	3.2	1204	4	US-09-372-422A-3	Sequence 3, Appl
	43	40.2	3.2	792	4	US-09-489-039A-4876	Sequence 4876, Ap
	44	40	3.2	720	4	US-09-134-001C-1328	Sequence 1328, Ap
	45	40	3.2	1242	4	US-09-372-448A-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1
US-09-381-810A-2
; Sequence 2, Application US/09381810A
; Patent No. 6252046
; GENERAL INFORMATION:
; APPLICANT: SANTEN PHARMACEUTICAL CO., LTD.
; TITLE OF INVENTION: No. 6252046el Polypeptide Having Water Channel
; TITLE OF SEQUENCES: Activity and DNA sequence
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SANTEN PHARMACEUTICAL CO., LTD.
; STREET: 9 19 Shimoshinjo 3-chome Higashi-yodogawa-Ku
; CITY: Osaka
; STATE: Osaka
; COUNTRY: JAPAN
; ZIP: 533-0021
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 1.44 MB, storage
; COMPUTER: IBM PS/2 or compatibles
; OPERATING SYSTEM: WINDOWS 95/97
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/381,810A
; FILING DATE: 19-OCT-1999
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP09 094845
; FILING DATE: 28-MAR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Burton A. Amernick
; REGISTRATION NUMBER: 24852
; REFERENCE/DOCKET NUMBER: 1581/00156
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)331-7111
; TELEFAX: (202)293-6229
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1258 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to mRNA
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; TISSUE TYPE: fat tissue
; FEATURE:
; NAME/KEY: exon
; LOCATION: F173..1198
; IDENTIFICATION METHOD: by experiment
US-09-381-810A-2

priority doc.

Query Match 100.0%; Score 1258; DB 3; Length 1258;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1258; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTCTGAGTGGGGACACAGGATAGCTGAGCCCGCAGCTGGGGTGGAGCTGAGCCAG 60
Db 1 GGCTCTGAGTGGGGACACAGGATAGCTGAGCCCGCAGCTGGGGTGGAGCTGAGCCAG 60

QY 61 GGACAGTCAAGGAGAACAGATCAAGATGCGCTGTAACCTGAGAACGCCCCCAAGGGCGAG 120
Db 61 GGACAGTCAAGGAGAACAGATCAAGATGCGCTGTAACCTGAGAACGCCCCCAAGGGCGAG 120

QY 121 GCTGAGAATCAGAGACATTTTCAGCAGACATCTACAAATCTGAAAGACAAAAATGTTTCA 180
Db 121 GCTGAGAATCAGAGACATTTTCAGCAGACATCTACAAATCTGAAAGACAAAAATGTTTCA 180

QY 181 AGCATCCGGGACACAGCGGTTCACCCGTGGCTCCAAATGGTCTCTGGTCCGTGATAGC 240
Db 181 AGCATCCGGGACACAGCGGTTCACCCGTGGCTCCAAATGGTCTCTGGTCCGTGATAGC 240

QY 241 AAAGATCCAGGAAATCTCAGAGGAAGATGGTCCAGAGATTCCTGGCCGAGTTCAATGAG 300
Db 241 AAAGATCCAGGAAATCTCAGAGGAAGATGGTCCAGAGATTCCTGGCCGAGTTCAATGAG 300

QY 301 CACATATGTCATGATGGTATTCGGCCCTTGGTTCGGTGGCCCATATGTTTCTAAATAAAAA 360
Db 301 CACATATGTCATGATGGTATTCGGCCCTTGGTTCGGTGGCCCATATGTTTCTAAATAAAAA 360

QY 361 ATATGGGAGCTACCTTGGTGTCAACTTGGGTTTGGCTTCGGAGTCAACATGGGAGTGA 420
Db 361 ATATGGGAGCTACCTTGGTGTCAACTTGGGTTTGGCTTCGGAGTCAACATGGGAGTGA 420

QY 421 CBTGGCAGCCCGATCTCTGGAGCCACATGAACGAGCTGTGACCTTTGCTAACTGTGC 480
Db 421 CBTGGCAGCCCGATCTCTGGAGCCACATGAACGAGCTGTGACCTTTGCTAACTGTGC 480

QY 481 GCTGGGCCGCGTGGAGGAAGTTTCCGGTCTATGTGCTGGGCACTTCTCGGGCTC 540
Db 481 GCTGGGCCGCGTGGAGGAAGTTTCCGGTCTATGTGCTGGGCACTTCTCGGGCTC 540

QY 541 CTTCTCGGGGCTGCCACCATCTACAGTCTCTTCTACAGGCGCATTTCTCACTTTTCGGG 600
Db 541 CTTCTCGGGGCTGCCACCATCTACAGTCTCTTCTACAGGCGCATTTCTCACTTTTCGGG 600

QY 601 TGSACAGCTGATGCTGACCGGTCCTCGCTCAGCTGCGCATTTTGGCCACTACCTTCC 660
Db 601 TGSACAGCTGATGCTGACCGGTCCTCGCTCAGCTGCGCATTTTGGCCACTACCTTCC 660

QY 661 TGATCAGATGACATTTGCGGGGCTTCTGTAATGAGGCTGGCTGACCGGGATGCTCCA 720
Db 661 TGATCAGATGACATTTGCGGGGCTTCTGTAATGAGGCTGGCTGACCGGGATGCTCCA 720

QY 721 GCTGTGTCTTCGCGCATCAGGACAGGAGAACAAACCCAGCAGCTGCCAGGAAACAGAGGC 780
Db 721 GCTGTGTCTTCGCGCATCAGGACAGGAGAACAAACCCAGCAGCTGCCAGGAAACAGAGGC 780

QY 781 GCTGGTGATAGGCATCCTCGTGTGTCATCATCGGGGTGCTCCCTGGCATGAACACAGGATA 840
Db 781 GCTGGTGATAGGCATCCTCGTGTGTCATCATCGGGGTGTCCTTGGCATGAACACAGGATA 840

QY 841 TGCCATCAACCCGCTCCCGGAGACCTGCCCCCGCATCTTCACTTTCATTTGCTGGTGGGG 900
Db 841 TGCCATCAACCCGCTCCCGGAGACCTGCCCCCGCATCTTCACTTTCATTTGCTGGTGGGG 900

QY 901 CAAAAGGCTTTCAGCAATGGGAGAACTGGTGGTGGGTCGACGTGGTGGACCACTTCT 960
Db 901 CAAAAGGCTTTCAGCAATGGGAGAACTGGTGGTGGGTCGACGTGGTGGACCACTTCT 960

QY 961 GGTGCTCTATAGGTGGGATCATCTACCTGGTCTTCTATTGGTCCACCATCCACGGGA 1020
Db 961 GGTGCTCTATAGGTGGGATCATCTACCTGGTCTTCTATTGGTCCACCATCCACGGGA 1020

RESULT 2

US-09-621-976-17479
; Sequence 17479, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621, 976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 17479
; LENGTH: 536
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-621-976-17479

Query Match 14.2%; Score 179; DB 4; Length 536;
Best Local Similarity 97.0%; Pred. No. 1.9e-45;
Matches 193; Conservative 0; Mismatches 5; Indels 1; Gaps 1;

QY 1 GGCTCTGAGTGGGACACAGGGATAGCTGAGCCCGCAGCTGGGGTGGAGCTGAGCCAG 60
Db 135 GGCTCTGAGTGGGACACAGGGATAGCTGAGCCCGCAGCTGGGGTGGAGCTGAGCCAG 194

QY 61 GGACAGTCAAGGAGAACAGATCAAGATGCGCTGTAACCTGAGAACGCCCCCAAGGGAG 120
Db 195 GGACAGTCAAGGAGAACAGATCAAGATGCGCTTAACTGAGAACGCCCCCAAGGGAG 254

QY 121 GCTGAGAATCAGA-GACATTTTCAGCAGACATCTACAAATCTGAAAGACAAAAACATGGTTC 179
Db 255 GCTGAGAATCAGAAGACATTTTCAGCAGACATCTACAAATCTGAGGACAAAAACATGGTTC 314

QY 180 AAGCATCCGGGACACAGGCG 198
Db 315 AAGCATCTGGGACACAGGCG 333

RESULT 3

US-09-621-976-17480
; Sequence 17480, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621, 976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 17480

570	QY	TCTTCTACAGCGGCATTTCTCCATCTTTTCGGGTGGACAGCTGATGGTGACCGG-----	621
2183	Db	TCTACAGCAGCCTGTTTCATCGAGTTCGAACAGGCGCGAACAATCGTCCGGCGAGCCAGG	2124
622	QY	-TCCCGTCGCTACAGCTGGCAATTTTTCGCACTTACCTTCTCGATCATCATGACATTTGTGGC	680
2123	Db	ACAGCTGGCGCCTCGGCTCTCGGTGTTCTTCACTTATTCGCAACCGCGCGCTGTCCGTGGGCC	2064
681	QY	GGGGCTTCTTGAATAGAGCGGTGGGTGACCGGGATGCTCCAGCTGTGTCTTTCGGCCATCA	740
2063	Db	AGGCGTTTCTTCGTGAAGTGGTGATCACGCCATCTCTCATGGCGGTGATCATGGCCCTTA	2004
741	QY	CGAACCAGGAGAAACAACCCAGCACTGCCAGAAACAGAGGCGCTGGTGATAGGCGATCTCTCG	800
2003	Db	CCGACGACGCAACAGGCGCTCCCGCGGGTCCGTTGGCGCCGCTGCTGATCGGGCTGCTGA	1944
801	QY	TGGTTCATCATCGGGGTGTCCCTTTGGCATGAACACAGGATATGCCATCAACCCCGTCCCGGG	860
1943	Db	TCGCGGTGATCGGTAGCGCCATGGSCCGCTGACCGGTTTCGCGATGAACCCGCGCGCG	1884
861	QY	ACCTGCCCCCGCATCTTCACTTTCAATTGCTGGTTGGGGCAACAGGCTTTCA-----	914
1883	Db	ACTTCGCCCCCAAGCTGATGATCACTTACCTGCGCGCTGGGGGCCCATCGCCTTCAACCGCG	1824
915	QY	GCAATGGGAGAACTGGTGGTGGGTGGACAGTGGTGCAACCACTTCTGGGTGCCTATCTAG	974
1823	Db	GCGCGGAGATCCCTATTCTTCTGGTGGCATCTTCGCCCGCGATCCTCGGTGCGCTGCCTCG	1764
975	QY	GTGGCATCATCTACCTGGTCTTCATTG	1001
1763	Db	GCGCGCGCGGTATCTGGTACTGATCG	1737

RESULT 6

```

US-09-489-039A-3411
; Sequence 3411, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 3411
; LENGTH: 930
; TYPE: DNA
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-3411

```

RESULT 7

```

US-09-489-039A-2135
; Sequence 2135, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breston et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 2135
; LENGTH: 987
; TYPE: DNA
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-2135

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519	QY	TCGTGGGGCAGTTCCTCGGCGTCTCTCTCGGGGTGGCCACATCTACAGTCTCTTCTACA	578
347	Db	TTATTTTCGCAATTCGCTGGCGCCTTTTTCGCTCGGCAATAGTTTACGGGCTTTTACTACA	406
579	QY	CGGCCATTTCTCCATTTTTCGGGTGGACAGCTGATGGTGACCGGTCCCG-----TCG	629
407	Db	ATCTTTTCTCTCGATTATGAACAACCCACCACATATGATTCGCGCAGCGTGGAAAGCCTCG	466
630	QY	CTACAGCTGGCATTATTTTGGCCACCTACCTCTCTGATACATGACATTTGTGCGGGGTCTCC	689
467	Db	ATCTGGCGGGCATTTTCTCTCACTTACCCGAAACCCGACACATCAATTTGTGACGGCCTTCG	526
690	QY	TGAATGAGCGCTGGCTGACCGGGATGCTCCAGCTGTCTCTTCGGCATCACCGACGACAGG	749
527	Db	CGGTAGAGATGGTGATTACCGCTATCTGATGGCGCTCATCTCTGGCGCTGACCGACGATG	586
750	QY	AGAACAAACCCAGCACTGCGCAGGAAACAGAGCGCTGTGTGATAGGCATCTCTCGTGGTCA	809
587	Db	GCAACGGCATACCGCGGGCCGCTGGCGCCTCTCTGTGATTGGCTCTGATTTCGGGTGA	646
810	QY	TCGGGGTGTCCCTTGGCATGAAACACAGGATATGCCATCAACCGGTCCCGGACCTGCCCC	869
647	Db	TTGGCGCCTTCATGGGACCGGTGACCGGCTTCGGCAATGAACCCGGCGCGTGAATCGGCC	706
870	QY	CCCGCATCTTCAACCTTCATTCTGCTTTGGGCAAAACAGGTCTTCA-----GCAATGGGG	923
707	Db	CGAAAGCCTTTCGCTTGGCTGGCGGGGTGGGGTGAAGTTCGCTTCACTGGCGGCAAGATA	766
924	QY	AGAACTGGTGGTGGCTGACAGTGGTGGCACCACTTCTTGGGGTGGCTATCTAGAGTGGCATCA	983
767	Db	TTCTCTTATTTCTGTGTCGCTGTGCGCAACGGTGGTTCGGCGGGCGCTGGCGGCATTC	826
984	QY	TCCTACTGGTCTTCATTGGCTTCCACCATCCCAACCGGAGCCC	1024
827	Db	GCTATCGTAAGCTGATTGGCGCGTCACTGCTGCTTGCACACC	867

	Query Match	8.6%;	Score 108.6;	DB 4;	Length 987;
	Best Local Similarity	48.6%;	Pred. No. 1.8e-23;		
	Matches	368;	Conservative	0;	Mismatches 374; Indels 15; Gaps 2;
QY	279	AGTTCCTGCGCGAGTTCATGACACATATGTCATGATGTTATTCGGCCTTGGTTCCGTGG	338		
Db	212	AGTGCCTGCGCGAGTTCTTGGCACCGAATGCTCATTTCTTCGGCGCGGGCTGCGTCG	271		
QY	339	CCCATATGGTTCTAAATAAAAAATATGGGAGCTACCTTGGTGTCAACTTGGGTTTTTGGCT	398		
Db	272	CTGCGCTGCGGGTCTCGCGGGGCCAGCTTTGGTCAGTGGGAGATCAGTATTATCTGGGGCC	331		
QY	399	TCGGAGTCAACATGGGAGTGCACGTGGCAGGCCGACATCTCTGGAGGCCACCATGAACGCAG	458		
Db	332	TTGGCTCGCCATGGCCATCTACCTGACGCGCGGTGTCTCGCGGGGACCTTAATCCGG	391		

Qy	459	CTGTGACCTTTTGCTAACTGTGCGCTGGGCGCGGTGCCCTCGAGGAAGTTTTCGGGTCTATG	518
Db	392	CGGTGACCACTTTCGCGCTGTGTGGCTGTTCGCGCTGTTTGAACCGCGCAAGGTGCTGCGCGTTTA	451
Qy	519	TGCTGGGGCAGTTCCTGGGCTCCTTCGTCGGGGCTGCACCACTATACAGTCTCTTCTACA	578
Db	452	TTGTTGCCACAGCGCCGGGGCCCTTCGCGCGCGCGCTGGTGTATGGGCTCTATCGCC	511
Qy	579	CGGCCATTTCTCCACTTTTCGGGTGGACAGCTGATGGTGACCGGTCCCGTTCGCTA	632
Db	512	AGCTGTTTCTCGATCTTGAACAGAGTCAAGCATATCGTGGCGGCACGCTCGCCAGTCTTA	571
Qy	633	---CAGCTGGGATTTTTCACACTTACTCTTGATCAATGACATGTGTGGCGGGGTCC	689
Db	572	ACCTGGCGGGGTCTTTTCCACGTAACCGGCATCCACATATCACTTTTATACAAGGGTTTG	631
Qy	690	TGAATGAGCGTGGCTGACCGGGATGTCAGCTGTCTCTTCGCCATACAGGACCAAG	749
Db	632	CCGTGGAGACCAACATACGGGAATCTTGATGGCGATGATATGGCCCTGACCGACGAG	691
Qy	750	AGAACACCCACGACTGTCACAGGAAACAGAGGGCGCTGGTGATAGGCATCTCTGTGGTCA	809
Db	692	GCAACGGAAATTCGCGCGGGCGCTGGCGCGTGTCTGATTTGGCTTGCTGATCGCGTGA	751
Qy	810	TCGGGGTGTCTCTTGCGATGAACACAGAGATATGCCATCAACCCGTCCGGGACCTGCC	869
Db	752	TCGGCGGTTCGATGGGGCGCTTAACCGGCTTTGCGCTGAATCCGGCGCGCACTTCGGCC	811
Qy	870	CCCGCATCTTCACCTTCACTGCTGGTTGGGGCAACAGGTCTTACGAATGGGGAG----	925
Db	812	CAAAACTGTTTACAGTCTGGCCGGGTGGGGCTCGATCGCCCTTACCGGTGGGCTGGGA	871
Qy	926	--AACTGGTGGTGGCGCAGTGGTGGGACCACTTTCTGGGTGCCCTATCTAGGTGGCATCA	983
Db	872	TCCCTTACTTTCTGGTGGCGTGTGGGGCCGGTGGTGGGGCGGATATACGGGGCGTTTT	931
Qy	984	TCTACCTGGTCTTCATTTGGCTCCACCATCCCAACCGGA	1020
Db	932	TGTATCGCAAGCTTATCGGCGCCACTCTGCGGTGCGA	968

```

RESULT 8
US-09-621-976-13266
; Sequence 13266, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 13266
; LENGTH: 197
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-621-976-13266

```

	Query Match	8.4%	Score 106.2;	DB 4; Length 197; Best Local Similarity 97.5% Pred. No. 4e-23; Matches 116; Conservative 2; Mismatches 0; Indels 1; Gaps 1.
Qy	198	GGTCCACCGTGGCTC	CAAAATGTTCTCT-	-GGTCCTGATAGCAAA GATCCAGGAATA 256
Dd	79	GGTCCACCGTGGCTC	CAAATGTTCTCTCT	TAGTAGTCCGTAAGA AATCATCCAGGAATA 138
Qy	257	CTGCAGAGGAAGATT	GGTGCGAGAGTTCT	TGCCCGAGTTCCNTG AGCACATATGTCTANGAT 315
Dd	139	CTGCAGAGGAAGATT	GGTGCGAGAGTTCT	TGCCCGAGTTCCATG AGCACATATGTGTATGAT 197

RESULT 9
 US-09-489-039A-2828
 ; Sequence 2828, Application US/09489039A
 ; Patent No. 6610836
 ; GENERAL INFORMATION:
 ; APPLICANT: Gary Breton et. al
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
 ; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
 ; FILE REFERENCE: 2709.2004001
 ; CURRENT APPLICATION NUMBER: US/09/489,039A
 ; CURRENT FILING DATE: 2000-01-27
 ; PRIOR APPLICATION NUMBER: US 60/117,747
 ; PRIOR FILING DATE: 1999-01-29
 ; NUMBER OF SEQ ID NOS: 14342
 ; SEQ ID NO 2828
 ; LENGTH: 960
 ; TYPE: DNA
 ; ORGANISM: Klebsiella pneumoniae
 US-09-489-039A-2828

Query Match	8.3%	Score 105;	DB 4;	Length 960;
Best local Similarity	48.3%;	Pred. No. 2.4e-22;		
Matches 365;	Conservative 0;	Mismatches 375;	Indels 15;	Gaps 2;
Qy	285	TGCGCAGTTTCATGACACATATGTCATGATGTTATTCGGCCTTTGGTTCGTTGGCCCCATA	344	
Db	179	TCGCGAGTTTTTAGGCACCGGGCTGTTCTGTTTTTTTGGTATCTGCTGCTGAGCGGCC	238	
Qy	345	TGGTTCTTAAATAAAAAATATGGGAGCTACCTTGGTGTCAACTTGGGTTTTTGGCTTCGGAG	404	
Db	239	TGAAACTGACCGCGCCAGCGCTGGGGCTGTGGAGATCTGTATTATCTGGGACTGGGTA	298	
Qy	405	TCACCATGGGAGTGCAGGTGGAGCGCGATCTCTGGAGCCCACATGAACGACGCTGTGA	464	
Db	299	TTTTCTCGGCGGTGTACTCTGACGCGCGCATTTTCGGGGGACATCTGAACCCCGCGGTCA	358	
Qy	465	CTTTTGCTAACTGTGCGCTCGGGCGGTGCCCTTGGAGGAAGTTTCCGGTCTATGCTGCTGG	524	
Db	359	CCGTGCGCCCTGTGGCTGTTTGTCTGCTTTCGGGCGAGAAAGTGGTGCCCTATATCTGTGG	418	
Qy	525	GGCAGTTTCTTGGGCTCCTTCTCGCGGCTGCCACCACATCTACAGTCTCTTCTTACACGGCCA	584	
Db	419	CTCAGGTGCGCGCGCGTTCGCGCGCGCTGCTGGCTTGGATCTTTCAGACACCCCTGT	478	
Qy	585	TTCTCCACTTTTCGGGTGGACAGGTGATGTGTGACCGGTCCCGTCGCTA-----CAG	635	
Db	479	TTACGCAATTTGAAACGSGTGCATCATATGTTGGCGGCAGCCTGGAAAGCCTGCAGCTGG	538	
Qy	636	CTGGCATTTTGGCACTTTCCTGATCACATGACATGTTGTGCGGGGCTTCTCTGAATG	695	
Db	539	CCAGTATATTCAGTACCTACCCGCGCCTCAGCTCAGCATCTGGCATCGCGCGCTGTGTGG	598	
Qy	696	AGGCGTGGCTGACCGGGATGCTCAGCTGTGTCTCTTTCGCGCATCACGGACACAGAGAACA	755	
Db	599	AGGTGGTGATCACTCGATGCTGATGGGATGATCATGGCGCTCACCGATGATGGCAACG	658	
Qy	756	ACCAGCACTGCCAGGAACAGAGCGCTGTGTGATAGGCATCTCTGTGGTCAATATCGGGG	815	
Db	659	GCGTACCAAGGGGCCCATGCGCGCGCTGTGTGATTGGCAATTTCTGGTGGCGGTGATCGCGG	718	
Qy	816	TGTCCTTGGCATGACACAGGATATGCCATCAACCGTCCCGGACCTGCCCGCCCGCA	875	
Db	719	CCTCGACCGGGCGCTTTACCGGCTTCGCGATGAATCCGGCACCGCATTTTGGCGCCGAAT	778	
Qy	876	TCCTTCACTTTCATTGCTGGTTGGGGCAACAGAGTCTTTCAGCAATGGGGAGAA-----CT	929	
Db	779	TGTTCACTGGTTCGCGCGGTGGGGCAATATCGCCATGA CCGGGGGAAGAGATATTCCCT	838	
Qy	930	GGTGGTGGGTGCCAGTGGTGGCAACCACTTCTGGGTGCTTATCTAGGTGGCATCATCTACC	989	
Db	839	ATTTTATCGTGCCCAATTATCGACCGTTGTTAGGGGCTCTGCTCGGCGCGCAATTTATC	898	

QY 990 TGGTCTTCAATGGCTCCACCATCCACGGGAGCC 1024
DB 899 GTTTCTTATCGCAATATCTGCCCTGTATACC 933

RESULT 10

US-09-252-991A-5464
; Sequence 5464, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 5464
; LENGTH: 636
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-5464.

Query Match 7.1%; Score 89.8; DB 4; Length 636;
Best Local Similarity 49.2%; Pred. No. 9.6e-18;
Matches 272; Conservative 0; Mismatches 272; Indels 9; Gaps 1;

QY 270 TGGTGGAGAGTTCTGCGCGAGTTTCATGAGCACATATGTCATGATGGTATTCGGCTTG 329
DB 81 TGTTCGGCAATGCTTGGCGAGTTCTCGGCACCGCTCTCATCTCTTTCGGCAGCC 140

QY 330 GTTTCGGTGGCCCATATATGTTCTTAAATAAATAATATGGAGTACCTTGGTGTCAACTTGG 389
DB 141 GTTTCGGTGGCCCATATGTTCTTAAATAAATAATATGGAGTACCTTGGTGTCAACTTGG 200

QY 390 GTTTCGGTGGCCCATATGTTCTTAAATAAATAATATGGAGTACCTTGGTGTCAACTTGG 449
DB 201 TCTGGGGGGTGGCGTGGAGTGGCGATCTACCTCAGCGCGCGCTCTCGCGCGCCACC 260

QY 450 TGAAGCAGCTGTGACCTTTTGTAACTGTCGCTGGCGCGCTGTCGCGCGCGCTGTCGCGCG 509
DB 261 TGAAGCAGCTGTGACCTTTTGTAACTGTCGCTGGCGCGCTGTCGCGCGCGCTGTCGCGCG 320

QY 510 CGGTCTATGCTGGGGCAGTTCTGGGCTCTTCTGGGCTGCTTCTGGGCTGCTGCTGCTGCTGCT 569
DB 321 CGTCTTACATACCGCCAGGTGGCGGTGGCTTCTGGCGCGCGCTGCTGCTGCTGCTGCTGCT 380

QY 570 TCTTCTACAGCGCATCTCCACTTTTTCGGTGGAGCAGCTGATGGTACCGG----- 621
DB 381 TCTACAGCAGCTGTTTCATCGAGTTCGAACAGCGCGAGAACATCGTTCGCGCGCGCGCAGG 440

QY 622 -TCCCGTCTACAGCTGCGATTTTTCGGTGGAGCAGCTGATGGTACCGG----- 680
DB 441 ACAGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCT 500

QY 681 GGGGCTTCTGAATGAGGCTGGCTGACCGGGATGCTCCAGCTGTGTCTTCTTCCGCAATCA 740
DB 501 AGCGGTCTCTGTCGAAGTGGTATCAGCGCCATCTCTATGCGGTGATCATGGCCCTTA 560

QY 741 CGGACAGAGAACAAACCCAGCACTCCAGGAAACAGAGCGCTGTGTATAGGATCTCTCG 800
DB 561 CGGACAGAGAACAAACCCAGCACTCCAGGAAACAGAGCGCTGTGTATAGGATCTCTCG 620

QY 801 TGTCTATCATCGG 813
DB 621 TCGCGGTATCGG 633

RESULT 11

US-09-543-681A-4103
; Sequence 4103, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 4103
; LENGTH: 849
; TYPE: DNA
; ORGANISM: Proteus mirabilis
US-09-543-681A-4103

Query Match 6.2%; Score 78.4; DB 4; Length 849;
Best Local Similarity 45.9%; Pred. No. 3.9e-14;
Matches 357; Conservative 0; Mismatches 406; Indels 15; Gaps 2;

QY 273 TCGGAGAGTTCCTGCGCGAGTTTCATGAGCACATATGTCATGATGGTATTCGGCTTGGTT 332
DB 59 TGGGTCAATGCAATTTCCGAGTTTATCGGTACTGTCATTCGTCTCTTTGGTCTTGGTT 118

QY 333 CGGTGGCCCATATGTTTCTAAATAAATAATATGGAGTACCTTGGTGTCAACTTGGTT 392
DB 119 GTGTTGACAGCAGCATATCGCAGCGCTCACTCGGTCTTTGGAGATAAGTATATATCT 178

QY 393 TTGGCTTCGGAGTCAACCATGAGTGACGTGGCAGCGCATCTCTGAGGCCACATCA 452
DB 179 GGGCTTTAGTGTTCCTTAGCGTTTACTTACCTGCGGTACTCTGCGGTACTCTGCTCA 238

QY 453 ACGCAGCTGTGACCTTTTCTAACTGTCGCTGGCGCGCTGCTGGAGGAAGTTTCGG 512
DB 239 ACCCGCGGTACAGTCGCAATTCGTGTTTGTGCGTCTTGAACGTAAATAAGTTATCC 298

QY 513 TCTATGTCGGGCGAGTTCTTGGGCTCTTCTGCGGCTGCCACCATCTACAGTCTCT 572
DB 299 CTTATATTTGTCACAAATGTTAGGTGTTTTTTTGGCGCGCTGTGTGTACTTTATGT 358

QY 573 TCTACAGCGCATCTTCCACTTTTTCGGGTGGACAGCTGATGTGACCGGTCC----- 624
DB 359 ATTACATTTATTTATCGACTAGCAACAGGTCAACGGATTTGTACGAGGATCACAGAA 418

QY 625 -CGTCTACAGCTGGCATTTTTCGCACCTACCTTCTCTGATCACATGACATTTGTGGCGGG 683
DB 419 GCCTCTTTACTGCGGGCGTCTTCTCTACTTACCCAGCAGCCCAATCTCTGTGATCCAG 478

QY 684 GCTTCTGATGAGCGGTGGCTGACCGGGATGCTCCAGCTGTCTCTTTCGGCATCACGG 743
DB 479 CATTTTATCGAAGTAATTTATGCGGTATTTCTCTGTTGGCTTAATTTTAGGCTTAAACAG 538

QY 744 ACCAGAGAACAAACCCAGCATCTCCAGGAAACAGAGCGCTGGTGTAGGATCTCTCGTGG 803
DB 539 ATGATGTTAAACGGGTGACCTCGTGGGCTTTAGCGCCATTACTTATCGGTATTTGATTTG 598

QY 804 TCATCATCGGGTGTCCCTTGGCATGAAACAGAGGATATGCCATCAACCGTCCCGGAGCC 863
DB 599 CGGTTATCGGTGGTGCATTTGGCCCATTAACCTGGAATTCGCTTAAACCTGCGCGTGAAT 658

QY 864 TSCCCCCCGCATCTTACCTTCAATTTGTTGGTGGGCAACAGGCTCTTCAGCAATGGGG 923
DB 659 TTGGGCCCAAAATAGTCGCATTTCTTTCGGGATGGGGTGATATGCTTTTAAACAGGTGGAC 718

QY 924 AGAAC-----TGTGTTGGGTGGCGCAGTGGTGGCAGCACTTCTGGGTGCTATCTAGGTG 977
DB 719 GCGATATTCCTTATTTCTTAGTCCCACTCATTTGCTCCATGATGGGGGTATTTAGGCG 778

QY 978 GCATCATCTACCTGTTCTTTCATTTGGCTCCACCATCCACGGGAGCCCTTGAAATTTGGA 1035

Db 779 CACTTGTATCGTAACCTTATGGCCGTCCTACCTTGTGATACCTGCAAAATTGA 836
 RESULT 12
 US-09-489-039A-3424/c
 ; Sequence 3424, Application US/09489039A
 ; Patent No. 6610836
 ; GENERAL INFORMATION:
 ; APPLICANT: Gary Breton et. al
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
 ; FILE REFERENCE: 2709.2004001
 ; CURRENT APPLICATION NUMBER: US/09/489,039A
 ; PRIOR FILING DATE: 2000-01-27
 ; PRIOR APPLICATION NUMBER: US 60/117,747
 ; PRIOR FILING DATE: 1999-01-29
 ; NUMBER OF SEQ ID NOS: 14342
 ; SEQ ID NO 3424
 ; LENGTH: 2049
 ; TYPE: DNA
 ; ORGANISM: Klebsiella pneumoniae
 US-09-489-039A-3424

Query Match 6.2%; Score 78.4; DB 4; Length 2049;
 Best Local Similarity 51.5%; Pred. No. 6.5e-14;
 Matches 209; Conservative 0; Mismatches 191; Indels 6; Gaps 1;
 Qy 625 CGTCGTACAGCTGCACTTTTGGCCACCTACCTCTGATCAGATGATGCGGGG 684
 Db 1972 CTTGATCTGCGCGGCACTTTCTCCACTTACCGNACCCGACATCAATTTTGTGAGGC 1913
 Qy 685 CTTCTGTAATGAGCGGTGCGTGCAGCGGATGCTCCAGCTGTCTCTTCGCGCATCACCGA 744
 Db 1912 CTTGCGGTAGAGATGGTATTACCGCTATCTGATGGCGTCATCTCTGGCGCTCACCGA 1853
 Qy 745 CCAGAGAACACCCAGCACTGCCAGAACAGAGCGCTGTGATAGGCATCTCTGTTG 804
 Db 1852 CGATGGCAACGGCATACCGCGCGGCGCTGCGCCCTCTGCTGATTTGCGCTGATTGC 1793
 Qy 805 CATCATCGGGGTGCTCCCTTGGCATGACACAGGATATGCCATCAACCGTCCCGGACCT 864
 Db 1792 GGTGATGGCGCTTCATGAGACCGCTGACCGCTTCGCCATGAACCGCGCGGTGACAT 1733
 Qy 865 GCCCCCGCATCTTCACTTTCACTGCTGTTGGGGCAACAGGTCTTTCA-----GCAA 918
 Db 1732 CGGCCCGAAAGCTTTCGCTGCTGCGGGGTGGGTGACGTGCGCTTCACTTGGCGCAA 1673
 Qy 919 TGGGAGAACTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 978
 Db 1672 AGATATTCCTTATTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1613
 Qy 979 CATCATCTACCTGGTCTTCACTTGGCTCCACCATCCACGGGAGGCC 1024
 Db 1612 ATTCAGCTATCGTAGCTGATTTGGCCGTCACCTGCTTGGCAGACC 1567

RESULT 13
 US-09-968-563-19
 ; Sequence 19, Application US/08968563
 ; Patent No. 6013494
 ; GENERAL INFORMATION:
 ; APPLICANT: CHARLES E. NAKAMURA
 ; APPLICANT: ANTHONY A. GATENBY
 ; APPLICANT: AMY (KUANG-HUA) HSU
 ; APPLICANT: RICHARD D. LA REAU
 ; APPLICANT: SHARON L. HAYNIE
 ; APPLICANT: MARIA DIAZ-TORRES
 ; APPLICANT: DONALD E. TRIMBUR
 ; APPLICANT: GREGORY M. WHITED
 ; APPLICANT: VASANTHA NAGARAJAN
 ; APPLICANT: MARK S. PAYNE
 ; APPLICANT: STEPHEN K. PICATAGGIO

; APPLICANT: RAMESCH V. NAIR
 ; TITLE OF INVENTION: METHOD FOR THE RECOMBINANT
 ; NUMBER OF SEQUENCES: 49
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: E. I. DU PONT DE NEMOURS AND COMPANY
 ; STREET: 1007 MARKET STREET
 ; CITY: WILMINGTON
 ; STATE: DELAWARE
 ; COUNTRY: U.S.A.
 ; ZIP: 19898
 ; ADDRESSEE: GENENCOR INTERNATIONAL, INC.
 ; STREET: 4 CAMBRIDGE PLACE
 ; STREET: 1870 SOUTH WINTON ROAD
 ; CITY: ROCHESTER
 ; STATE: NEW YORK
 ; COUNTRY: U.S.A.
 ; COMPUTER READABLE FORM.
 ; MEDIUM TYPE: 3.50 INCH DISKETTE
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: MICROSOFT WORD FOR WINDOWS 95
 ; SOFTWARE: MICROSOFT WORD VERSION 7.0A
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/968,563
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; FILING DATE: 60/030,601
 ; FILING DATE: NOVEMBER 13, 1996
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: FLOYD, LINDA AXAMETHY
 ; REGISTRATION NUMBER: 33,692
 ; REFERENCE/DOCKET NUMBER: CR-9982
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 302-892-8112
 ; TELEFAX: 302-773-0164
 ; INFORMATION FOR SEQ ID NO: 19:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 12145 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA (genomic)
 ; ORGANISM: PHK28-26
 ; ORGANISM: PHK28-26
 US-08-968-563-19

Query Match 5.7%; Score 71.4; DB 3; Length 12145;
 Best Local Similarity 48.5%; Pred. No. 2.7e-11;
 Matches 235; Conservative 0; Mismatches 241; Indels 9; Gaps 1;
 Qy 279 AGTTCTCGGCGAGTTTCATGAGCAGCATATGTCATGATGATGATGATGATGATGATG 338
 Db 11654 AGTCGCTGGCGAGTTTCTTGGCACCGGATGCTCATTTCTTGGCGCGGCTGCGTGC 11713
 Qy 339 CCCATATGGTTCTAAATAAAAAATATGGAGCTACCTTGGTGTCAACTTGGGTTTGGCT 398
 Db 11714 CTGCGCTGCGGTCGCGGGGCCAGCTTTGTGTAGTGGAGATCAGTATTATCTGGGGCC 11773
 Qy 399 TCGAGATCACCATGGAGATGCACGTGGAGCGCCGATCTCTGGAGCCACATGAACGAG 458
 Db 11774 TTGGCGTGGCCATGGCCATCTACCTGACGGCGGTGTCTCGCGCGCGCACCTAAATCCG 11833
 Qy 459 CTGTGACCTTTGTCTAACTGTGCGCTGGCGCGCGCTGGAGGAAGTTTCCGGTCTATG 518
 Db 11834 CGGTGACCATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 11893
 Qy 519 TGCTGGGGCAGTTCTCTGGGCTCTCTTCTGGCGGCTGCCACCATCTACAGTCTCTTCTACA 578
 Db 11894 TTGTTGCCAGACGCGCGGGGCTTCTGCGCGCGCGGCTGCTGCTGCTGCTGCTGCTG 11953
 Qy 579 CGGCCATCTCCACTTTTTCGGGTGGACAGCTGATGGTACCGGTCCCGTCCGCTA----- 632

Db 11954 AGCTGTTTCTGATCTTGAACAGAGTCAGCATATTCGTGCGGCGCACTGCGCGCCAGTCTTAA 12013
QY 633 ---CAGCTGGGCAATTTTGGCCACTACCTTCTCTGATCACAATGACATTTGTGGGGGCTTTCC 689
Db 12014 ACCTGGCGGGGTCTTTCCAGGTACCGGCATCCACATATCACTTTTATACAAAGGTTTG 12073
QY 690 TGAATGAGCGGTGGGTGACCGGATGCTCCAGCTGTCTTTCGCCATCAGGACCGAGG 749
Db 12074 CCGTGGAGACCAACCATCAGGCAATCTTGATGGCGATGATCATGCGCCCTGACCGACGAGC 12133
QY 750 AGAAC 754
Db 12134 GCAAC 12138

RESULT 14
US-08-969-683A-19
; Sequence 19, Application US/08969683A
; Patent No. 6136576
; GENERAL INFORMATION:
; APPLICANT: GENENCOR INTERNATIONAL, INC.
; TITLE OF INVENTION: METHOD FOR THE RECOMBINANT
; TITLE OF INVENTION: PRODUCTION OF 1,3 PROPANEDIOL
; NUMBER OF SEQUENCES: 68
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genencor International, Inc.
; STREET: 4 Cambridge Place
; STREET: 1870 South Winton road
; CITY: Rochester
; STATE: NY
; COUNTRY: U.S.A
; ZIP: 14618

COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows
; SOFTWARE: FastSeq for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/969,683A
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US97/20873
; FILING DATE: 13-NOV-1997
; APPLICATION NUMBER: 60/030,601
; FILING DATE: 13-NOV-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Glaister, Debra
; REGISTRATION NUMBER: 33,888
; REFERENCE/DOCKET NUMBER: GC 369-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-864-7620
; TELEFAX: 650-845-6504
; TELEX:

INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12145 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; ORIGINAL SOURCE:
; ORGANISM: PHK28-26
US-08-969-683A-19

Query Match 5.7%; Score 71.4; DB 3; Length 12145;
Best Local Similarity 48.5%; Pred. No. 2.7e-11;
Matches 235; Conservative 0; Mismatches 241; Indels 9; Gaps 1;
QY 279 AGTTCCTGCGCGAGTTCATGAGCACAATATGTCATGATGGTATTTCGGCCTTGGTTCGCTGG 338
Db 11654 AGTGGTGGCGGAGTTCCTTGGCACCAGATGCTCATATTTCTTCGCGCGGCGGCTGCGTGC 11713

QY 339 CCCATATGGTTCCTAAATAAAAAATATGGGAGCTACCTTTGGTGTCAACTTGGGTTTGGCT 398
Db 11714 CTGCGCTGCGGGTCGCGGGGCCAGCTTTTGGTCAAGTGGGAGATCAGTATTTATCTGGGGCC 11773
QY 399 TCGGAGTCACCATGGGAGTGCACGTGGCAGCGCCGATCTCTGGAGCCCAACATGAACGCAG 458
Db 11774 TTGGGTGCGCCATGGCCATCTACCTGACCGCGGGTGTCTCCGCGCGGCACTTAATATCCGG 11833
QY 459 CTGTGACCTTTTCTAACTGTGCGCTGGGCGCGCTGCCCTGGAGGAAGTTTCGGGTCTATG 518
Db 11834 CGGTGACCATTTGCCCTGTGGCTGTTCCGCTGTTTGAACGCGCAAGGTGCTGCCGTTTA 11893
QY 519 TGCTGGGGCAGTTCCTGGGCTCTCTTCTGGGCGGTGCGCCACCATCTACAGTCTCTTCTACA 578
Db 11894 TTGTTCGCCAGACGCGCGGGGCTTCTCGCGCGCGGCTGTGTATGGGCTCTATCGCC 11953
QY 579 CGGCCATTTCTCACTTTTTCGGGTGACAGCTGATGTCACGGTCCCGTCCGTA----- 632
Db 11954 AGCTGTTTCTCGATCTTGAACAGAGTACAGATATCGTGGCGGCACTGCGGCCAGTCTTAA 12013
QY 633 ---CAGCTGGCAATTTTTCGCCACTTCTCTGATCACAATGACATTTGTGGGGGCTTTCC 689
Db 12014 ACCTGGCGGGGTCTTTTCCAGGTACCGGCATCCACATATCACTTTTATACAAAGGTTTG 12073
QY 690 TGAATGAGCGGTGGGTGACCGGATGCTCCAGCTGTCTCTTTCGCCATCAGGACCGAGG 749
Db 12074 CCGTGGAGACCAACCATCAGGCAATCTCTGATGGCGATGATCATGCGCCCTGACCGACGAGC 12133
QY 750 AGAAC 754
Db 12134 GCAAC 12138

RESULT 15
US-09-369-796-1
; Sequence 1, Application US/09369796
; Patent No. 6428767
; GENERAL INFORMATION:
; APPLICANT: BURCH, ROBERT R.
; APPLICANT: DORSCH, ROBERT R.
; APPLICANT: LAPPEND, LISA ANNE
; APPLICANT: NAGARAJAN, VASANTHA
; APPLICANT: NAKAMURA, CHARLES
; TITLE OF INVENTION: 1,3-PROPANEDIOL AND POLYMER DERIVATIVES FROM A
; TITLE OF INVENTION: FERMENTABLE CARBON SOURCE
; FILE REFERENCE: CR-9715-F
; CURRENT APPLICATION NUMBER: US/09/369,796
; CURRENT FILING DATE: 1999-08-06
; EARLIER APPLICATION NUMBER: 08/440,293
; EARLIER FILING DATE: May 12, 1995
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 1
; LENGTH: 12145
; TYPE: DNA
; ORGANISM: Klebsiella pneumoniae
US-09-369-796-1

Query Match 5.7%; Score 71.4; DB 4; Length 12145;
Best Local Similarity 48.5%; Pred. No. 2.7e-11;
Matches 235; Conservative 0; Mismatches 241; Indels 9; Gaps 1;
QY 279 AGTTCCTGCGCGAGTTCATGAGCACAATATGTCATGATGGTATTTCGGCCTTGGTTCGCTGG 338
Db 11654 AGTGGTGGCGGAGTTCCTTGGCACCAGATGCTCATATTTCTTCGCGCGGCGGCTGCGTGC 11713
QY 339 CCCATATGGTTCCTAAATAAAAAATATGGGAGCTACCTTGGTGTCAACTTGGGTTTGGCT 398
Db 11714 CTGCGCTGCGGGTCGCGGGGCCAGCTTTTGGTCAAGTGGGAGATCAGTATTTATCTGGGGCC 11773
QY 399 TCGGAGTCACCATGGGAGTGCACGTGGCAGCGGCGCATCTCTGGAGCCCAACATGAACGCAG 458
Db 11774 TTGGGTGCGCCATGGCCATCTTACCTGACGCGCGGTGTCTCCGCGCGGCACTTAATATCCGG 11833

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OM nucleic - nucleic search, using sw model

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Total number of hits satisfying chosen parameters: 4617368

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
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18: /cgn2_6/ptodata/1/pubnpa/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	1258	100.0	1258	9	US-09-954-531-1344
3	963.2	76.6	1066	15	US-10-093-463-173
4	326.6	26.0	3757	15	US-10-094-749-545
5	260.8	20.7	1446	14	US-10-177-293-11
6	260.4	20.7	588	14	US-10-029-386-873
7	260.4	20.7	1599	14	US-10-177-293-9
8	216.4	17.2	1495	9	US-09-917-800A-1718
9	215	17.1	260	15	US-10-242-535A-5242
10	213.6	17.0	1532	9	US-09-822-830A-415
11	202.8	16.1	578	14	US-10-029-386-1382
12	166.6	13.2	181	14	US-10-029-386-15084
13	166.4	13.2	176	14	US-10-029-386-14576
14	132	10.5	843	14	US-10-156-761-7179
15	132	10.5	9025608	14	US-10-156-761-1

16	125.4	10.0	849	12	US-10-282-122A-31407	Sequence 31407, A
17	124.2	9.9	840	12	US-10-282-122A-30312	Sequence 30312, A
18	123.8	9.8	849	12	US-10-282-122A-23195	Sequence 23195, A
19	121	9.6	373	15	US-10-027-632-285939	Sequence 285939, A
20	111	8.8	843	12	US-10-282-122A-20129	Sequence 20129, A
21	110.6	8.8	846	12	US-10-282-122A-6642	Sequence 6642, Ap
22	108	8.6	385	10	US-09-518-995-36840	Sequence 36840, A
23	107.6	8.6	846	12	US-10-282-122A-39821	Sequence 39821, A
24	101.2	8.0	855	12	US-10-282-122A-33738	Sequence 33738, A
25	81.8	6.5	849	12	US-10-282-122A-36802	Sequence 36802, A
26	80	6.4	849	12	US-10-282-122A-41919	Sequence 41919, A
27	76.8	6.1	370	10	US-09-918-995-30179	Sequence 30179, A
28	76.8	6.1	813	12	US-10-282-122A-32762	Sequence 32762, A
29	72.4	5.8	1003	12	US-10-424-599-17118	Sequence 17118, A
30	71.4	5.7	12145	10	US-09-308-207-19	Sequence 19, Appl
31	71.4	5.7	12145	14	US-10-213-203-1	Sequence 1, Appl
32	71.4	5.7	12145	14	US-10-277-249-1	Sequence 1, Appl
33	71.4	5.7	12145	15	US-10-374-366-32	Sequence 32, Appl
34	70.6	5.6	1424	12	US-10-424-599-59520	Sequence 59520, A
35	70.2	5.6	789	12	US-10-282-122A-31114	Sequence 31114, A
C 36	70.2	5.6	9025608	14	US-10-156-761-1	Sequence 1, Appl
37	69.8	5.5	104	9	US-09-728-445-857	Sequence 857, Appl
38	69.4	5.5	747	14	US-10-156-761-6942	Sequence 6942, Ap
C 39	67.4	5.4	561	15	US-10-027-632-264839	Sequence 264839, A
C 40	67.4	5.4	561	15	US-10-027-632-264840	Sequence 264840, A
C 41	65	5.2	368	9	US-09-960-352-6096	Sequence 6096, Ap
C 42	62.6	5.0	3186778	15	US-10-027-632-174961	Sequence 174961, A
43	62.4	4.8	395	9	US-09-867-550-281	Sequence 281, App
44	60.6	4.8	795	12	US-10-282-122A-22079	Sequence 22079, A
45	60.6	4.8	1830121	14	US-10-329-960-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1

US-09-849-980B-2
; Sequence 2, Application US/09849980B
; Patent No. US20020123611A1
; GENERAL INFORMATION:

APPLICANT: SANTEN PHARMACEUTICAL CO., LTD.
TITLE OF INVENTION: No. US20020123611A1 Polypeptide Having Water Channel
TITLE OF INVENTION: Activity and DNA sequence
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: SANTEN PHARMACEUTICAL CO., LTD.
STREET: 9 19 Shimoshinjo 3-chome Higashiyodogawa-Ku
CITY: Osaka
STATE: Osaka
COUNTRY: JAPAN
ZIP: 533-0021
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 MB, storage
COMPUTER: IBM PS/2 or compatibles
OPERATING SYSTEM: WINDOWS 95/97
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/849,980B
FILING DATE: 19-OCT-1999

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/JP98/01371
FILING DATE: 27-MAR-1998
APPLICATION NUMBER: JP 09-094845
FILING DATE: 28-MAR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Burton A. Amernick
REGISTRATION NUMBER: 24852
REFERENCE/DOCKET NUMBER: 1581/00156
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)331-7111
TELEFAX: (202)293-6229
INFORMATION FOR SEQ ID NO: 2:

Appl.

SEQUENCE CHARACTERISTICS:
LENGTH: 1258 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA to mRNA
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
TISSUE TYPE: fat tissue
FEATURE:
NAME/KEY: exon
LOCATION: F173..1198
IDENTIFICATION METHOD: by experiment
US-09-849-980B-2

Query Match 100.0%; Score 1258; DB 9; Length 1258;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1258; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTCTGGAGTGGGGACACAGGATAGCTGAGCCCGAGCTGGGGTGGAGCTGAGCCAG 60
DB 1 GGCTCTGGAGTGGGGACACAGGATAGCTGAGCCCGAGCTGGGGTGGAGCTGAGCCAG 60
QY 61 GGACAGTACGGAGGAACAGATCAAGATCGCTGTAACTGAGAACCCCGCCAGGCGGAG 120
DB 61 GGACAGTACGGAGGAACAGATCAAGATCGCTGTAACTGAGAACCCCGCCAGGCGGAG 120
QY 121 GCTGAGAATCAGAGACATTTTCAGCAGACATCTACAAATCTGAAAGACAAACATGTTCA 180
DB 121 GCTGAGAATCAGAGACATTTTCAGCAGACATCTACAAATCTGAAAGACAAACATGTTCA 180
QY 181 AGCATCCGGGCAACAGCGGTTCACCGGTGCTCAAAATGGTCTCGTCCGTGATAGC 240
DB 181 AGCATCCGGGCAACAGCGGTTCACCGGTGCTCAAAATGGTCTCGTCCGTGATAGC 240
QY 241 AAAGATCCAGGAATACCTGAGAGGAAGATGTCGAGAGTTCCTGGCGAGTTCTATGAG 300
DB 241 AAAGATCCAGGAATACCTGAGAGGAAGATGTCGAGAGTTCCTGGCGAGTTCTATGAG 300
QY 301 CACATATGTCATGATGTTGGCTTGGCTTCCGTGGCCCATATGTTCTAAATAAAA 360
DB 301 CACATATGTCATGATGTTGGCTTGGCTTCCGTGGCCCATATGTTCTAAATAAAA 360
QY 361 ATATGGAGTACCTTGGTGTCACTTGGGTTTGGCTTCGGAGTCAACATGGAGTGA 420
DB 361 ATATGGAGTACCTTGGTGTCACTTGGGTTTGGCTTCGGAGTCAACATGGAGTGA 420
QY 421 CGTGGAGCGCGATCTCTGGAGCCACATGAACGAGCTGTGACCTTTGCTAACTGTGC 480
DB 421 CGTGGAGCGCGATCTCTGGAGCCACATGAACGAGCTGTGACCTTTGCTAACTGTGC 480
QY 481 GCTGGGCGCGTCCCTGGAGGAAGTTTCGGTCTATGTGCTGGGCGAGTTCTGGGCTC 540
DB 481 GCTGGGCGCGTCCCTGGAGGAAGTTTCGGTCTATGTGCTGGGCGAGTTCTGGGCTC 540
QY 541 CTTCTGGGCGTCCACCATCTACAGTCTCTTCTACAGGCGCATTTCTCCACTTTTCGGG 600
DB 541 CTTCTGGGCGTCCACCATCTACAGTCTCTTCTACAGGCGCATTTCTCCACTTTTCGGG 600
QY 601 TGGACAGCTGATGTTGACCGGTCCCGTGGTACAGCTGGGATTTTGGCCACCTACCTTCC 660
DB 601 TGGACAGCTGATGTTGACCGGTCCCGTGGTACAGCTGGGATTTTGGCCACCTACCTTCC 660
QY 661 TGATCAGATGACATTTGGCGGGCTTCTGATGAGGCTGGCTGACCGGATGTTCTCA 720
DB 661 TGATCAGATGACATTTGGCGGGCTTCTGATGAGGCTGGCTGACCGGATGTTCTCA 720
QY 721 GCTGTGCTCTTTCGCCATCAGGACAGGAGAACACCCAGCAGCTGCCAGGAACAGAGGC 780
DB 721 GCTGTGCTCTTTCGCCATCAGGACAGGAGAACACCCAGCAGCTGCCAGGAACAGAGGC 780
QY 781 GCTGTGTATAGGATCTCTGTGTGTCATCATCGGGTGTCCCTGGGATGAACACAGGATA 840
DB 781 GCTGTGTATAGGATCTCTGTGTGTCATCATCGGGTGTCCCTGGGATGAACACAGGATA 840

DB 781 GCTGTGTATAGGATCTCTGTGTGTCATCATCGGGTGTCCCTGGGATGAACACAGGATA 840
QY 841 TGCCATCAACCCGCTCCCGGAGCTGCCCCCGCATCTTCACTTCACTTCTGTTGGGG 900
DB 841 TGCCATCAACCCGCTCCCGGAGCTGCCCCCGCATCTTCACTTCACTTCTGTTGGGG 900
QY 901 CAAACAGGCTTTTCAAGCAATGGGAGAACTGGTGGTGGTGGTGGTGGTGGTGGTGGT 960
DB 901 CAAACAGGCTTTTCAAGCAATGGGAGAACTGGTGGTGGTGGTGGTGGTGGTGGTGGT 960
QY 961 GGGTGCCTATCTAGGTGGGATCATCTACCTGTCTTCTTCTTCTTCTTCTTCTTCTTCT 1020
DB 961 GGGTGCCTATCTAGGTGGGATCATCTACCTGTCTTCTTCTTCTTCTTCTTCTTCTTCT 1020
QY 1021 GCCCTGAAATTTGGAGGATTTCTGTGGCGGTATGAAGACCAACCGGATTAACCGTATTTGCCAA 1080
DB 1021 GCCCTGAAATTTGGAGGATTTCTGTGGCGGTATGAAGACCAACCGGATTAACCGTATTTGCCAA 1080
QY 1081 GATGGGATCTCATGAACCCACGATCTCTCCCTCACCCCGCTCTCTGTGAGCCCTGCCAA 1140
DB 1081 GATGGGATCTCATGAACCCACGATCTCTCCCTCACCCCGCTCTCTGTGAGCCCTGCCAA 1140
QY 1141 CAGATCTTCAGTCCACCTGCCCCCATGATGATGATGATGATGATGATGATGATGATGAT 1200
DB 1141 CAGATCTTCAGTCCACCTGCCCCCATGATGATGATGATGATGATGATGATGATGATGAT 1200
QY 1201 AGCAGAGATTTATTTGTGATCCCATCATTTCCCAATAAAGCAAGGCTTGTCCGACAA 1258
DB 1201 AGCAGAGATTTATTTGTGATCCCATCATTTCCCAATAAAGCAAGGCTTGTCCGACAA 1258

RESULT 2

US-09-954-531-1344
; Sequence 1344, Application US/09954531
; Patent No. US20020165180A1
; GENERAL INFORMATION:
; APPLICANT: Weaver, Zoe
; TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Cance
; FILE OF INVENTION: Gene Sets
; FILE REFERENCE: 689290-77
; CURRENT FILING DATE: 2002-05-02
; PRIOR APPLICATION NUMBER: US/09/954,531
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US/60/233,133
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US/60/234,009
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US/60/234,034
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US/60/234,509
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: US/60/234,567
; PRIOR FILING DATE: 2000-09-22
; NUMBER OF SEQ ID NOS: 1392
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 1344
; LENGTH: 1258
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-954-531-1344

Query Match 100.0%; Score 1258; DB 9; Length 1258;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1258; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCTCTGGAGTGGGGACACAGGATAGCTGAGCCCGAGCTGGGGTGGAGCTGAGCCAG 60
DB 1 GGCTCTGGAGTGGGGACACAGGATAGCTGAGCCCGAGCTGGGGTGGAGCTGAGCCAG 60
QY 61 GGACAGTACGGAGGAACAGATCAAGATCGCTGTAACTGAGAACCCCGCCAGGCGGAG 120
DB 61 GGACAGTACGGAGGAACAGATCAAGATCGCTGTAACTGAGAACCCCGCCAGGCGGAG 120
QY 121 GCTGAGAATCAGAGACATTTTCAGCAGACATCTACAAATCTGAAAGACAAACATGTTCA 180

bad date

Db 121 GCTGAGATTCAGAGACATTTTCAGCAGACATCTACAAATCTGAAGACAAAAATCATGGTTCA 180
Qy 181 AGCATCCGGGACAGCGGTCACCCGTCGCTCCAAAATGGTCTCTCGTCGGTGATAGC 240
Db 181 AGCATCCGGGACAGCGGTCACCCGTCGCTCCAAAATGGTCTCTCGTCGGTGATAGC 240
Qy 241 AAAGATCCAGGAAATATCTGACAGAGGAAGATGGTCGAGAGTTCTTGGCCGAGTTTCATGAG 300
Db 241 AAAGATCCAGGAAATATCTGACAGAGGAAGATGGTCGAGAGTTCTTGGCCGAGTTTCATGAG 300
Qy 301 CACATATCTCATGATGATTTGGGCTTTGGTCCGTCGAGGATGTTCTTAATAAAAA 360
Db 301 CACATATCTCATGATGATTTGGGCTTTGGTCCGTCGAGGATGTTCTTAATAAAAA 360
Qy 361 ATATGGGAGTACCTTGGTGTCAACTTGGGTTTGGCTTCGAGTCACCATGGGAGTGCA 420
Db 361 ATATGGGAGTACCTTGGTGTCAACTTGGGTTTGGCTTCGAGTCACCATGGGAGTGCA 420
Qy 421 CGTGACAGGCGCATCTCTGAGGCGCAATGAAGCGAGCTGTGACCTTTGCTAACTGTGC 480
Db 421 CGTGACAGGCGCATCTCTGAGGCGCAATGAAGCGAGCTGTGACCTTTGCTAACTGTGC 480
Qy 481 GCTGGGCGGTCGCTGGAGGAGTTTCCGCTCTATGTGCTGGGCGAGTTCTTGGGCTC 540
Db 481 GCTGGGCGGTCGCTGGAGGAGTTTCCGCTCTATGTGCTGGGCGAGTTCTTGGGCTC 540
Qy 541 CTCTCTGGCGGTCGACCATCTACAGTCTCTTCTACACGCGCATTTCTCCACTTTTGGG 600
Db 541 CTCTCTGGCGGTCGACCATCTACAGTCTCTTCTACACGCGCATTTCTCCACTTTTGGG 600
Qy 601 TGGACAGTGTATGAGTGTGACCGGTCGCTACAGCTGGCAATTTTGGCACCTACTTCC 660
Db 601 TGGACAGTGTATGAGTGTGACCGGTCGCTACAGCTGGCAATTTTGGCACCTACTTCC 660
Qy 661 TGATCAGATGATTTGGCGGGTCTCTGAATGAGCGGTGGCTGACCGGATGCTCCA 720
Db 661 TGATCAGATGATTTGGCGGGTCTCTGAATGAGCGGTGGCTGACCGGATGCTCCA 720
Qy 721 GCTGTGCTCTTTCGACATCGAGGACGAGAAACCCAGCAGCTCCAGGAAACAGAGGC 780
Db 721 GCTGTGCTCTTTCGACATCGAGGACGAGAAACCCAGCAGCTCCAGGAAACAGAGGC 780
Qy 781 GCTGTGTATGAGCATCTCTGTGTATCATCGGGGTGTCCCTTGGCATGAACACAGGATA 840
Db 781 GCTGTGTATGAGCATCTCTGTGTATCATCGGGGTGTCCCTTGGCATGAACACAGGATA 840
Qy 841 TGCCATCAACCGGTCGCGGACCTGCGCCCGCGCATCTTACCTTCAATGCTGGTTGGG 900
Db 841 TGCCATCAACCGGTCGCGGACCTGCGCCCGCGCATCTTACCTTCAATGCTGGTTGGG 900
Qy 901 CAACAGGTCTTCAGCAATGGGAGAACTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 960
Db 901 CAACAGGTCTTCAGCAATGGGAGAACTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 960
Qy 961 GGGTGCCTATCTAGTGGCATCATCTACCTGGTCTTCAATGGCTCCACCATCCACGGA 1020
Db 961 GGGTGCCTATCTAGTGGCATCATCTACCTGGTCTTCAATGGCTCCACCATCCACGGA 1020
Qy 1021 GCCCTGAAATGGAGGATTTGTGGGATTAAGACACGCGGATAACCGTATTGCCCAA 1080
Db 1021 GCCCTGAAATGGAGGATTTGTGGGATTAAGACACGCGGATAACCGTATTGCCCAA 1080
Qy 1081 GATGGGATCTCATGAACCCAGATCTCTCCCTCACCCCGCTCTGTGAGCCCTGCCAA 1140
Db 1081 GATGGGATCTCATGAACCCAGATCTCTCCCTCACCCCGCTCTGTGAGCCCTGCCAA 1140
Qy 1141 CAGATCTTCAGTCCACCTGCCCGCCCTTACATGAATCCATGGCCCTAGAGCACTTCTA 1200
Db 1141 CAGATCTTCAGTCCACCTGCCCGCCCTTACATGAATCCATGGCCCTAGAGCACTTCTA 1200
Qy 1201 AGCAGAGATTTATTTGTGATCCCATCTCCCAATAAGCAAGGCTTGTCCGACAA 1258
Db 1201 AGCAGAGATTTATTTGTGATCCCATCTCCCAATAAGCAAGGCTTGTCCGACAA 1258

Db 1201 AGCAGAGATTTATTTGTGATCCCATCTCCCAATAAGCAAGGCTTGTCCGACAA 1258
RESULT 3
US-10-093-463-173
; Sequence 173, Application US/10093463
; Publication No. US20030208039A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Shenoy, Suresh
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Gusev, Vladimir
; APPLICANT: Pochart, Pascal
; APPLICANT: Zhong, Mei
; APPLICANT: Rastelli, Luca
; APPLICANT: Mezes, Peter
; APPLICANT: Smithson, Glennnda
; APPLICANT: Guo, Xiaojia
; APPLICANT: Gerlach, Valerie
; APPLICANT: Casman, Stacie
; APPLICANT: Boldog, Ferenc
; APPLICANT: Li, Li
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Tchernev, Velizar
; APPLICANT: Gangolli, Esha
; APPLICANT: Vernet, Corine
; APPLICANT: Pena, Carol
; APPLICANT: Burgess, Catherine
; APPLICANT: Liu, Xiaohong
; APPLICANT: Spytek, Kimberly
; APPLICANT: Gorman, Linda
; APPLICANT: Spaderna, Steven
; APPLICANT: Voss, Edward
; APPLICANT: Malyankar, Uriel
; APPLICANT: Anderson, David
; APPLICANT: Patturajan, Meera
; APPLICANT: Miller, Charles
; APPLICANT: Taupier, Raymond J. Jr.
; TITLE OF INVENTION: No. US20030208039A1 Antibodies that Bind to Antigenic Polypeptic
; TITLE OF INVENTION: Encoding The Antigens, and Methods of Use.
; FILE REFERENCE: 21402-290A (Cura 590A1)
; CURRENT APPLICATION NUMBER: US/10/093,463
; CURRENT FILING DATE: 2002-06-24
; PRIOR APPLICATION NUMBER: 60/283,675
; PRIOR FILING DATE: 2001-04-14
; PRIOR APPLICATION NUMBER: 60/338,092
; PRIOR FILING DATE: 2001-12-03
; PRIOR APPLICATION NUMBER: 60/274,281
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: 60/274,101
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: 60/325,681
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: 60/304,354
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/279,995
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 60/294,899
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: 60/287,424
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/299,027
; PRIOR FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/309,198
; PRIOR FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: 60/281,194
; PRIOR FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: 60/274,194
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: 60/274,849
; PRIOR FILING DATE: 2001-03-09
; PRIOR APPLICATION NUMBER: 60/330,380
; PRIOR FILING DATE: 2001-10-18

		PRIOR APPLICATION NUMBER: 60/275,235 PRIOR FILING DATE: 2001-03-12 PRIOR APPLICATION NUMBER: 60/288,342 PRIOR FILING DATE: 2001-05-03 PRIOR APPLICATION NUMBER: 60/275,578 PRIOR FILING DATE: 2001-03-13 NUMBER OF SEQ ID NOS: 370 SOFTWARE: PatentIn Ver. 2.1 SEQ ID NO 173 LENGTH: 1066 TYPE: DNA ORGANISM: Homo sapiens NAME/KEY: CDS LOCATION: (9)...(1047) US-10-093-463-173			
		Query Match 76.8%; Score 963.2; DB 15; Length 1066; Best Local Similarity 94.8%; Pred. No. 2e-299; Matches 1011; Conservative 0; Mismatches 43; Indels 12; Gaps 1;			
QY	165	GACAAACATGGTTCAAGCATCGGCGACAGCGGTCACCGGTGCTCCAAATGGTCT	224		
DB	1	GACAAACATGGTTCAAGCATCGGCGACAGCGGTCACCGGTGCTCCAAATGGTCT	60		
QY	225	CCTGGTCCGTGATAGCAAGATCCAGAAATACTG-----CAGAGGAAGATGG	272		
DB	61	CCTGGTCCGTGATAGCAAGATCCAGAAATACTG-----CAGAGGAAGATGG	120		
QY	273	TGCGAGATTCCTGGCGGATTCATGACACATATCATGATGATGATGATGATGATG	332		
DB	121	TGCGAGATTCCTGGCGGATTCATGACACATATCATGATGATGATGATGATGATG	180		
QY	333	CGTGCCCATATGGTTCTAAATAAATAATGAGGAGTACCTTGGTGCACATGGGTT	392		
DB	181	CTGTGCCCATATGGTTCTAAATAAATAATGAGGAGTACCTTGGTGCACATGGGTT	240		
QY	393	TTGGCTTCGGAGTCCACATGGAGTGCAGTGGCGCGGCATCTCTGGAGGCCACATGA	452		
DB	241	TTGGCTTCGGAGTCCACATGGAGTGCAGTGGCGCGGCATCTCTGGAGGCCACATGA	300		
QY	453	AGCAGCTGTGACCTTTGCTTAATGTCGCTGGCGCGGCATCTCTGGAGGCCACATGA	512		
DB	301	ATGCAGCTGTGACCTTTGCTTAATGTCGCTGGCGCGGCATCTCTGGAGGCCACATGA	360		
QY	513	TCTATGCTGGGCGAGTTCCTGGGCTCCTTCTGGCGGCTGCCACCATCTACAGTCTCT	572		
DB	361	TCCATGCTGGGCGAGTTCCTGGGCTCCTTCTGGCGGCTGCCACCATCTACAGTCTCT	420		
QY	573	TCTACACGGCCATTTCTCCACTTTTCGGGTGGACAGCTGATGGTGACCGGTCCCGTCTA	632		
DB	421	TCTACACGGCCATTTCTCCACTTTTCGGGTGGAGAGCTGATGGTGACCGGTCCCGTCTA	480		
QY	633	CAGCTGGCAATTTTGGCCACTACCTTCTCTGATCATGATGATGATGATGATGATGATG	692		
DB	481	CAGCTGGCAATTTTGGCCACTACCTTCTCTGATCATGATGATGATGATGATGATGATG	540		
QY	693	ATGAGCGTGGTGGACCGGATGCTCCAGTGTGCTCTTGGCCATCATCGGACCGAGGA	752		
DB	541	ATGAGCGTGGTGGACCGGATGCTCCAGTGTGCTCTTGGCCATCATCGGACCGAGGA	600		
QY	753	ACAACCCAGCACTGCCAGGAACAGAGCGCTGGTGTAGTAGGATCTCTCGTGGTCAATCG	812		
DB	601	ACAACCCAGCACTGCCAGGAACAGAGCGCTGGTGTAGTAGGATCTCTCGTGGTCAATCA	660		
QY	813	GGGTGTCTTGGCATGAACAGGATATGCCATCAACCGCTCCCGGACCTGCCCCCCC	872		
DB	661	GGGTGTCTTGGCATGAACAGGATATGCCATCAACCGCTCCCGGACCTGCCCCCCC	720		
QY	873	GCATCTTACCTTCATTTGGTGGGCAACAGGCTCTTACGATGAGGAGGAGTGT	932		
DB	721	GCATCTTACCTTCATTTGGTGGGCAACAGGCTCTTACGATGAGGAGGAGTGT	780		

RESULT 4

		US-10-094-749-545 ; Sequence 545, Application US/10094749 ; Publication No. US20030219741A1 ; GENERAL INFORMATION: ; APPLICANT: ISOGAI, TAKAO ; APPLICANT: SUGIYAMA, TOMOYASU ; APPLICANT: OTSUKI, TETSUJI ; APPLICANT: WAKAMATSU, AI ; APPLICANT: SATO, HIROYUKI ; APPLICANT: ISHII, SHIZUKO ; APPLICANT: YAMAMOTO, JUN-ICHI ; APPLICANT: ISONO, YUUKO ; APPLICANT: HIO, YURI ; APPLICANT: OTSUKA, KAORU ; APPLICANT: NAGAI, KEIICHI ; APPLICANT: IRIE, RYOTARO ; APPLICANT: TAMECHIKA, ICHIRO ; APPLICANT: SEKI, NAOHICO ; APPLICANT: YOSHIKAWA, TSUTOMU ; APPLICANT: OTSUKA, MOTOKYUKI ; APPLICANT: NAGAHARI, KENJI ; APPLICANT: MASUHO, YASUHIKO ; FILE OF INVENTION: NOVEL FULL-LENGTH CDNA ; FILE REFERENCE: 084335/0160 ; CURRENT APPLICATION NUMBER: US/10/094,749 ; PRIOR FILING DATE: 2002-03-12 ; PRIOR APPLICATION NUMBER: 60/350,435 ; PRIOR FILING DATE: 2002-01-24 ; PRIOR APPLICATION NUMBER: JP 2001-328381 ; PRIOR FILING DATE: 2001-09-14 ; NUMBER OF SEQ ID NOS: 3381 ; SOFTWARE: PatentIn Ver. 2.1 ; SEQ ID NO 545 ; LENGTH: 3757 ; TYPE: DNA ; ORGANISM: Homo sapiens US-10-094-749-545			
		Query Match 26.0%; Score 326.6; DB 15; Length 3757; Best Local Similarity 96.0%; Pred. No. 4.8e-94; Matches 335; Conservative 0; Mismatches 14; Indels 0; Gaps 0;			
QY	908	GTCTTCAGCAATGGGGAGAACTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGC	967		
DB	1013	GCCTGCAGCGATGGGGAGAACTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGC	1072		
QY	968	TATCTAGGTGGCATCATCTACCTGTTCTTATTGGCTCCACCATCCCGGAGGCCCTG	1027		
DB	1073	TCTTAGGTGGCATCATCTACCTGTTCTTATTGGCTCCACCATCCCGGAGGCCCTG	1132		
QY	1028	AAATTGGAGGATTCTGTGGCGTATGAAGACCGGATAAACCGTATTGGCCAGATGGGA	1087		

```
Db 1133 AAATTGGAGGACTCTGTGGCGTATGAAGACACCGGATAACCGTATTGGCCCAAGATGGGA 1192
Qy 1088 TCTCATGAACCCAGGATCTCTCCCTCCACCCCGCTCTGTGAGCCCTGCGCAACAGATCT 1147
Db 1193 TCTCATGAACCCAGGATCTCTCCCTCCACCCCTCATCTCCGTGAGGCTTGCCAAAGATCT 1252
Qy 1148 TCAGTCCACCTGCGCCCAACCTTAAATGAATCCATGGCCCTAGAGCACTTCTAAGCAGAG 1207
Db 1253 TCAGTCCACTCTGCGCCCAACCTTAAATGAATCCATGGCCCTAGAGCACTTCTAAGCAGAG 1312
Qy 1208 ATTATTGTGATCCCATCCATTCCTCCCAATGAAGCAAGGCTTGTCCGACA 1256
Db 1313 ATTATTGTGATCCCATCCCTTCCCAATAAAGCAAGGCTTGTGCCACA 1361

RESULT 5
US-10-177-293-11
; Sequence 11, Application US/10177293
; Publication No. US20030124128A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Glatt, Karen
; APPLICANT: Zhao, Xumei
; APPLICANT: Gannavarpu, Manjula
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Mertens, Maureen
; APPLICANT: Myer, Vic
; APPLICANT: Wang, Youzhen
; APPLICANT: Xu, Yongyao
; APPLICANT: Hoersch, Sebastian
; APPLICANT: Monahan, John
; APPLICANT: Meyers, Rachel E.
; APPLICANT: Bast Jr., Robert C.
; APPLICANT: Hortobagyi, Gabriel N.
; APPLICANT: Pusztai, Lajos
; APPLICANT: Meric, Funda
; APPLICANT: Sahin, Ayesegul
; APPLICANT: Mills, Gordon B.
; TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT,
; FILE REFERENCE: MRI-038
; CURRENT APPLICATION NUMBER: US/10/177,293
; CURRENT FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: US 60/299,887
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: US 60/301,572
; PRIOR FILING DATE: 2001-06-27
; PRIOR APPLICATION NUMBER: US 60/306,501
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: US 60/325,002
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US 60/362,585
; PRIOR FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 60/xxx,xxx
; PRIOR FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 506
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 1446
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-177-293-11

Query Match 20.7%; Score 260.8; DB 14; Length 1446;
Best Local Similarity 58.8%; Pred. No. 5e-73;
Matches 470; Conservative 0; Mismatches 327; Indels 3; Gaps 1;

Qy 268 GATGTCGAGAGTTCCTGGCGGAGTTCATGAGCAGATATGTCATGATGTTCCGGCT 327
Db 124 GTTGCTCCGACAGGCGCTGGCGGAGTGCTGGGGACCTCATCTCGTGATGTTGGGTG 183
Qy 328 TGGTTCGTCGCCCATATGGTTCTAAATAA---AAATATGGAGCTACCTTGGTGTCAA 384
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Db 184 TGGCTCGTGGCCAGGTTGTGCTCAGCCCGGGGACCCACGGTGGTTTCTCTACCATCAA 243
Qy 385 CTGGGTTTTGGGTTTTCGGAGTCCACCATGGGAGTGCAGTGGCAGGCGCATCTCTGGAGC 444
Db 244 CTGGGCTTTGGCTTGTCTGCTCACTCTGGGCACTCTATCGCTGGCCAGGTCTCTGGGGC 303
Qy 445 CCACATGAACGCACTGTGACCTTTGCTAACTGTGCGCTGGGCGCGTGGCCCTGGAGAA 504
Db 304 CCACCTGAACCCCTGCGCTGACCTTTGGCATGTGCTTCCGCTCGTGAGCCCTGGATCAA 363
Qy 505 GTTTCGGGTCTATGTGCTGGGAGTTCCTGGGCTCTCTTCTGGGCTGCCACCATCTA 564
Db 364 GCTGCCCATCTACACCTCTGGCAGACGCTGGGAGCCTTCTTGGGTGCTGGAATAGTTTT 423
Qy 565 CAGTCTCTCTTACACGGCCATTCTCCACTTTTTCGGGTGGACAGCTGATGGTGACCGGTCC 624
Db 424 TGGGCTGTTATGATGCAATCTGGCACTTTGCCGACAAACGAGCTTTTGTTCGGGCCC 483
Qy 625 CGTGCCTACAGCTGGGCATTTTGGCCACTTCTCTGATCAATGACATGTTGGCGGG 684
Db 484 CAATGGCAGACGCGGCATCTTTGCTACTACCTACCCCTCTGGACACTTGGATATGATCAATGG 543
Qy 585 CTTCTCAATGAGCGGTGGCTGACCGGGATGCTCCAGCTGTGCTCTTCTGGCCATCAGGA 744
Db 544 CTTCTTTGACCAAGTTTATAGGCACAGCCTCCCTTATCGTGTGTGTGCTGGCCATTGTGA 603
Qy 745 CCAGGAGAACAAACCCAGCACTGCCAGGAAACAGAGGCGCTGGTATAGGCATCTCTCGTGGT 804
Db 604 CCCTTACACAAACCCCGCTGCCCGAGGCGCTTACCGTGGGCGCTGGTGTCTCT 663
Qy 805 CATCATCGGGGTGTCCTTGGCATGAACACAGGATATGCCATCAACCCGTCGCCGACCT 864
Db 664 GGTCAATTGGCACCTCCATGGGCTTCAACTCGGGCTATGCGGTCAACCTTGCCCGGACTT 723
Qy 865 GCCCCCCCGCATCTTTCACCTTTCATTGCTGGTGGGCAACAGAGCTTTCAGCATGGGGA 924
Db 724 TGGCCCCCGCTTTTATACAGCCCTTGGGCGCTTGGGCTCTGCACTCTTCAGACCGGCCA 783
Qy 925 GAACGTGTGGTGGTGGCGAGTGGTGCCACCACTTCTGGGTGGCTTCTAGGTGGCATCAT 984
Db 784 GCATTGTGTGGTGGCGCCATCGTGTCCCACTCTCTGGGTCCCATTTGGGGTGTCTTCGT 843
Qy 985 CTACCTGGTCTTTCATTGGCTCCACCATCCCAAGGAGCCCTGAAATTTGGAGGATTTCTGT 1044
Db 844 GTACCAGCTGATGATGGCTGCCACCTGGAGCAGCCCCCACCCTCCCAACGAGGAAGAA 903
Qy 1045 GCGTATGAAGACCAACGGGA 1064
Db 904 TGTGAAGCTGGCCCATGTGA 923

RESULT 6
US-10-029-386-873
; Sequence 873, Application US/10029386
; Publication No. US20030194704A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR GI
; FILE REFERENCE: AEMICA-X-2
; CURRENT APPLICATION NUMBER: US/10/029,386
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 34288
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 873
; LENGTH: 588
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL137070.3
```

OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 0.81
 OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.94
 OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.2
 OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.55
 OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.65
 OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.72
 OTHER INFORMATION: SWISSPROT HIT: Q14520, EVALUATION 2.00e-43
 OTHER INFORMATION: NT HIT: G14720872, EVALUATION 0.00e+00
 OTHER INFORMATION: EST_HUMAN HIT: A1732264.1, EVALUATION 0.00e+00
 US-10-029-386-873

Query Match 20.7%; Score 260.4; DB 14; Length 588;
 Best Local Similarity 96.0%; Pred. No. 4.5e-73;
 Matches 267; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 908 GTCTTCAGCAATGGGAGAACTGGTGGTGGCCAGTGGTGCCAGTGGTGCCACCACTTCTGGGTGCC 967
 Db 311 GCTGTCAGCGATGGGAGAACTGGTGGTGGCCAGTGGTGCCAGTGGTGCCACCACTTCTGGGTGCC 370

QY 968 TATCTAGTGGCATCATCTACCTGGTCTTCATTGGTCTCCACCATCCACGGGAGCCCTG 1027
 Db 371 TCTCTAGTGGCATCATCTACCTGGTCTTCATTGGTCTCCACCATCCACGGGAGCCCTG 430

QY 1028 AATTCGAGATCTCTGGCGTATGAGACCAAGGATACCGTATTTGCCCAAGATGGA 1087
 Db 431 AATTCGAGATCTCTGGCGTATGAGACCAAGGATACCGTATTTGCCCAAGATGGA 490

QY 1088 TCTCATGAACCCACGATCTCTCCCTCACCCCGTCTCTGTGAGCCCTGCCAACAGATCT 1147
 Db 491 TCTCATGAACCCACGATCTCTCCCTCACCCCGTCTCTGTGAGCCCTGCCAACAGATCT 550

QY 1148 TCAGTCCACCTCGCCCAACCTTACATGAATCAATGCC 1185
 Db 551 TCAGTCCACCTCGCCCAACCTTACATGAATCAATGCC 588

RESULT 7

US-10-177-293-9
 Sequence 9, Application US/10177293
 Publication No. US20030124128A1
 GENERAL INFORMATION:
 APPLICANT: Lillie, James
 APPLICANT: Glatt, Karen
 APPLICANT: Zhao, Xumei
 APPLICANT: Gannavarpu, Manjula
 APPLICANT: Kamatkar, Shubhangi
 APPLICANT: Mertens, Maureen
 APPLICANT: Myer, Vic
 APPLICANT: Wang, Youzhen
 APPLICANT: Xu, Yongyao
 APPLICANT: Hoersch, Sebastian
 APPLICANT: Monahan, John
 APPLICANT: Meyers, Rachel E.
 APPLICANT: Bast Jr., Robert C.
 APPLICANT: Hortobagyi, Gabriel N.
 APPLICANT: Fuszta, Lajos
 APPLICANT: Meric, Funda
 APPLICANT: Sahin, Aysegul
 APPLICANT: Mills, Gordon B.
 TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT,
 PREVENTION, AND THERAPY OF BREAST CANCER
 FILE REFERENCE: MRI-038
 CURRENT APPLICATION NUMBER: US/10/177,293
 CURRENT FILING DATE: 2002-06-21
 PRIOR APPLICATION NUMBER: US 60/299,887
 PRIOR FILING DATE: 2001-06-21
 PRIOR APPLICATION NUMBER: US 60/301,572
 PRIOR FILING DATE: 2001-06-27
 PRIOR APPLICATION NUMBER: US 60/306,501
 PRIOR FILING DATE: 2001-07-18
 PRIOR APPLICATION NUMBER: US 60/325,002
 PRIOR FILING DATE: 2001-09-25
 PRIOR APPLICATION NUMBER: US 60/362,585

PRIOR FILING DATE: 2002-03-05
 PRIOR APPLICATION NUMBER: US 60/xxx,xxx
 PRIOR FILING DATE: 2002-05-14
 NUMBER OF SEQ ID NOS: 506
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 9
 LENGTH: 1599
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: misc feature
 LOCATION: 1022..1081
 OTHER INFORMATION: n = A,T,C or G
 US-10-177-293-9

Query Match 20.7%; Score 260.4; DB 14; Length 1599;
 Best Local Similarity 58.6%; Pred. No. 7e-73;
 Matches 469; Conservative 1; Mismatches 327; Indels 3; Gaps 1;

QY 268 GATGTGCGAGAGTTCTCGCGAGTTTCATGAGCACATATGTCTCATGTATGTTGGCCT 327
 Db 124 GTTGCTCCGACAGGCGCTGGCGAGTGGCTGGGACCTCATCTCGTATGTTGGCTG 183

QY 328 TGGTTCGTTGGCCCATATGTTCTAAATAA---AAATATGGAGCTACCTTGGTGTCAA 384
 Db 184 TGGTTCGTTGGCCCATATGTTCTAAATAA---AAATATGGAGCTACCTTGGTGTCAA 243

QY 385 CTGTGGTCTTGGCTTGGAGTGCACCATGGAGTGCACGTGGGAGCGCCGATCTCTGGAGC 444
 Db 244 CTGTGGCTTGGCTTGGAGTGCACCATGGAGTGCACGTGGGAGCGCCGATCTCTGGAGC 303

QY 445 CCACATGAACGCGAGTGTGACCTTTGTAACCTGTGCGTGGCGCGCGCTGCGCCCTGGAGGAA 504
 Db 304 CCACCTGAACCTGCGGTGACCTTTTGCCATGTGCTTCTGGCTGCTGAGCCCTGGATCAA 363

QY 505 GTTTCGGTCTATGTGCTGGGCGAGTTCCTGGGCTCTCTTCTGGGCGGTGCCACCATCTA 564
 Db 364 GCTGCCATCTACACCTGGGCGAGCTGGGAGCTTCTTGGGTGCTGGAAATAGTTTT 423

QY 565 CAGTCTCTTACACGGGCATCTTCCACTTTTTCGGGTGGACAGCTGATGTCACCGGTCC 624
 Db 424 TGGGCTGTATATGATGCAATCTGCACTTTGCCGACACACAGCTTTTGTTCGGGCCC 483

QY 625 CGTCGCTACAGTGGCATTTTTCGCCACCTACCTCTCTGATCATGACATGTTGGCGGG 684
 Db 484 CAATGGCACAGCGCGCATCTTTTGCTACCTACCTCTGACACTTGGATATGATCAATGG 543

QY 685 CTTCCTGAATGAGGCGTGGCTGACCGGGATGCTCAGCTGTGTCTCTTGGCCATCAGCA 744
 Db 544 CTTCCTTGACCAAGTTTCATAGGCACAGCCTCCCTTATCGTGTGTGTGCTGGCAATTGTTGA 603

QY 745 CCAGGAGAACCAACCCAGCAGCTGCCAGGAAACAGAGCGCTGGTGATAGGCATCTCGTGT 804
 Db 604 CCCTTACAAACACCCCGCTCCCGAGGCGCTGGAGGCTTTCACCGTGGGCTGGTGTCT 663

QY 805 CATCATCGGGGTGTCCCTTGGCATGAACACAGGATATGCAACCCGCTCCCGGACCT 864
 Db 664 GGTCAATTGGCACTTCCATGGGCTTCAACTCCGCTATGCGCTCAACCCCTGCGGGACTT 723

QY 865 GCGCCCGCGCATCTTCACTTCACTTGTGGTGGGGGAAACAGGTCTTTCAGCAATGGGGA 924
 Db 724 TGGCCCGCGCTTTTACAGCCCTTTCGCGGCTGGGGCTCTGCACTTTCACGACCGGCA 783

QY 925 GAACGTGGTGGGTGGCGAGTGGTGGCGACCACTTCTGGTGGCTATCTAGTGGGATCAT 984
 Db 784 GCAATTGGTGGGTGGCGAGTGGTGGCGACCACTTCTGGGCTCCATTTGGGGGTCTTCTGT 843

QY 985 CTACCTGTCTTCAATTGGCTCCACCATCCCGGAGCGCCCTGAAATTTGGAGATTTCTGT 1044
 Db 844 GTACCAGCTGATGATCGGCTGCACTTGGAGCAGCCCCCACCCTTCAACGAGGAGAGAA 903

QY 1045 GCGGTATGAAGACCAAGGGA 1064

Db 904 TGTGAAGCTGGCCCATGTGA 923

RESULT 8
US-09-917-800A-1718
: Sequence 1718, Application US/09917800A
: Patent No. US20020119462A1
: GENERAL INFORMATION:
: APPLICANT: Mendrick, Donna
: APPLICANT: Porter, Mark
: APPLICANT: Johnson, Kory
: APPLICANT: Castle, Arthur
: APPLICANT: Elashoff, Michael
: APPLICANT: Gene Logic, Inc.
: TITLE OF INVENTION: Molecular Toxicology Modeling
: FILE REFERENCE: 44921-5038-US
: CURRENT APPLICATION NUMBER: US/09/917,800A
: CURRENT FILING DATE: 2001-07-31
: PRIOR APPLICATION NUMBER: US 60/222,040
: PRIOR FILING DATE: 2000-07-31
: PRIOR APPLICATION NUMBER: US 60/222,880
: PRIOR FILING DATE: 2000-11-02
: PRIOR APPLICATION NUMBER: US 60/290,029
: PRIOR FILING DATE: 2001-05-11
: PRIOR APPLICATION NUMBER: US 60/290,645
: PRIOR FILING DATE: 2001-05-15
: PRIOR APPLICATION NUMBER: US 60/292,336
: PRIOR FILING DATE: 2001-05-22
: PRIOR APPLICATION NUMBER: US 60/295,798
: PRIOR FILING DATE: 2001-06-06
: PRIOR APPLICATION NUMBER: US 60/297,457
: PRIOR FILING DATE: 2001-06-13
: PRIOR APPLICATION NUMBER: US 60/298,884
: PRIOR FILING DATE: 2001-06-19
: PRIOR APPLICATION NUMBER: US 60/303,459
: PRIOR FILING DATE: 2001-07-09
: NUMBER OF SEQ ID NOS: 1740
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 1718
: LENGTH: 1495
: TYPE: DNA
: ORGANISM: Rattus norvegicus
: FEATURE:
: OTHER INFORMATION: Genbank Accession No. US20020119462A1 NM_022960
US-09-917-800A-1718

Query Match	17.2%	Score 216.4	DB 9	Length 1495
Best Local Similarity	56.6%	Fried. No. 1e-58		
Matches 422	Conservative 0	Mismatches 321	Indels 3	Gaps 1
Qy 257	CTGCAGAGGAAGATGGTGCAGAGAGTTCCTGGCCGAGTTTCATGAGCACATATGTCATGATG	316		
Db 294	CTGAAGAGCCGATAGCGAAGAGACATCTCCGAGTTCTCGGCACCTTTATAATGATT	353		
Qy 317	GTATTTCGGCCTTGGTTCCGTGGCCCATATGGTTCTAAATAAAAAA---TATGGGAGCTAC	373		
Db 354	GTCCTTGGATGTAGCTCTATTGGCCCAAGCGTCTCAGTCGAGAACGTTTGGCCGGATC	413		
Qy 374	CTTGGTGTCAACTTGGGTTTGGCTTCGAGATCCATCGGAGTGACGTGGCAGGCCGCG	433		
Db 414	ATCACTATCAATATTTGGATTTCATCGGCAGTCGTGATGGCTCTCTATGTGACATTTGGT	473		
Qy 434	ATCTCTGGAGCCACATCAACGAGCTGTGACCTTTGCTAACTGCGCTGGCCGCGCTG	493		
Db 474	ATCTCTGGGGCCACATCAACCCAGCTGTGTCTTTTGCAATGTGCGCTTTTGGAAAGGATG	533		
Qy 494	CCCTGGAGGAAGTTTCCGGTCTATGTGCTGGGGCAGTTTCTGGGCTCCTTCTCTGGCGGCT	553		
Db 534	GAGTGGTTCAAGTTCCCATTTTATGTGGGAGCCCAAGTTTGGGAGCCTTTGTTGGGGCT	593		
Qy 554	GCAACCATCTACAGTCTCTTCTACACGGCCATTCTCCACATCTTTTGGGTGGACAGCTGATG	613		
Db 594	GCAACGGTCTTTGGCATTTATTTATGATGGACTCATGGCCTTTGCTGGCGGAAACTGCTC	653		

QY 186 CCGGGCAGAGCGGTCCACCCGTGCTCAAAATGGTCTCTCTGGTCCGTGATAGCAAGA 245
 Db 181 CTGGGACAGGCGGTCCACCTGTGGCTCCAAATGGTCTCTCCGGTCCCTGTATAGCAAGA 240
 QY 246 TCC 248
 Db 241 TAC 243

RESULT 10
 US-09-822-830A-415
 ; Sequence 415, Application US/09822830A
 ; Patent No. US20020142952A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Genetics Institute, Inc.
 ; APPLICANT: Wong, Gordon G.
 ; APPLICANT: Clark, Hilary
 ; APPLICANT: Fechtel, Kim
 ; APPLICANT: Agostino, Michael J.
 ; APPLICANT: Howes, Steven H.
 ; APPLICANT: Resnick, Richard J.
 ; APPLICANT: Gulukota, Kamalakur
 ; APPLICANT: Graham, James R.
 ; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING NOVEL SECRETED PROTEINS
 ; FILE REFERENCE: GIN 6402
 ; CURRENT APPLICATION NUMBER: US/09/822,830A
 ; CURRENT FILING DATE: 2001-03-29
 ; PRIOR APPLICATION NUMBER: 60/195,604
 ; PRIOR FILING DATE: 2000-04-06
 ; NUMBER OF SEQ ID NOS: 631
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 415
 ; LENGTH: 1532
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-822-830A-415

Query Match 17.0%; Score 213.6; DB 9; Length 1532;
 Best Local Similarity 58.5%; Pred. No. 8.3e-58;
 Matches 372; Conservative 0; Mismatches 264; Indels 0; Gaps 0;
 QY 429 GCGCATCTCTGGAGCCCAATGACGAGCTGTGACCTTTGCTAAGTGTGGCTGGGCC 488
 Db 1 GCGAGTCTCTGGGGCCCACTGAACCTGCGGTGACCTTTGCGCATGTGCTTCTCTGGCTC 60
 QY 489 GGTGCGCTGGAGGAGTTTCCGGTCTATGTCTGGGGAGTTCTCTGGGCTCTCTCCCTGG 548
 Db 61 GTGAGCCCTGGATCAAGCTGCGCACTACACCTTGGCAGACAGCTGGGAGCTTCTTGG 120
 QY 549 CGGCTGCCACCATCTACAGTCTCTCTACACGGCCATCTCCACTTTTTCGGGTGGACAGC 608
 Db 121 GTGCTGGAATAGTTTGGGCTGTATTATGATGCAATCTGGCACTTTGCCGACACACAGC 180
 QY 609 TGATGGTACCGGTCCCGTGGCTACAGCTGGCAATTTTGGCACTTCTCTCTGATACACA 668
 Db 181 TTTTGTGTTTGGGGCCCAATGACAGCGGCACTCTTTGCTACCTACCTACCTCTGGACACT 240
 QY 669 TGACATTGTGGGGGCTTCTCTGAATGAGGCTGTGCTGACCGGATGTCTCAGCTGTCTC 728
 Db 241 TGGATGATGATCAATGGCTTCTTTGACCAAGTTTATAGGCAACAGCCCTTCTTATCGTGTG 300
 QY 729 TCTTCCCATCAGGACAGGAGAACCAACCCAGCACTGCGAGAACAGAGGCGCTGGTGA 788
 Db 301 TGCTGGCCATTGTTGACCCCTACACACCCCGTCCCGAGGCTGGAGGCTTCCACCG 360
 QY 789 TAGGCATCTCTGGTTCATCATCGGGGTGTCCTTGGCATGAAACAGAGATATGCATCA 848
 Db 361 TGGGCTGTGGTCTCTGGTTCATTTGGCACCTCCATGGGCTTCACTCGGCTATGCGGTCA 420
 QY 849 ACCCGTCCGGGACCTGCCCCCGCCGATCTTACCTTCACTGCTGGTGGGCAACAGG 908
 Db 421 ACCCTGCCCGGACCTTTGGCCCCCGCCCTTTTACAGCCCTTGGGGCTCTGTCAG 480

QY 909 TCTTCAGCAATATGGGAGAACTGGTGGTGGTCCAGTGGTGGCACTTCTGGGTGGCT 968
 Db 481 TCTTCAGCAATATGGGAGAACTGGTGGTGGTCCAGTGGTGGTGGTGGTGGTGGTGGT 540
 QY 969 ATCTAGTGGCATCATCTACCTGGTCTTTCATTTGGTCCACCATCCACGGGAGCCCTGA 1028
 Db 541 TTGGCGGTGTCTTCTGTGTACCAAGTGTGATGGTGGTGGTGGTGGTGGTGGTGGTGG 600
 QY 1029 AATTGGAGGATTTCTGTGGGTATGAAGACCAAGGGA 1064
 Db 601 CCAACGAGAGAGATGTGAAGCTGGGCCATGTGA 636

RESULT 11
 US-10-029-386-1382
 ; Sequence 1382, Application US/10029386
 ; Publication No. US20030194704A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Penn, Sharron G.
 ; APPLICANT: Rank, David R.
 ; APPLICANT: Hanzel, David K.
 ; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR G
 ; TITLE OF INVENTION: EXPRESSION ANALYSIS TWO
 ; FILE REFERENCE: AEMICA-X-2
 ; CURRENT APPLICATION NUMBER: US/10/029,386
 ; CURRENT FILING DATE: 2001-12-20
 ; NUMBER OF SEQ ID NOS: 34288
 ; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
 ; SEQ ID NO 1382
 ; LENGTH: 578
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; OTHER INFORMATION: MAP TO ALL36317.2
 ; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 3.7
 ; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 4.1
 ; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 3.9
 ; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 3.5
 ; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 3.3
 ; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 2
 ; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 3.8
 ; OTHER INFORMATION: SWISSPROT HIT: O14520, EVALUE 2.00e-25
 ; OTHER INFORMATION: EST HUMAN HIT: AI792403.1, EVALUE 0.00e+00
 ; OTHER INFORMATION: NT HIT: gi14736665, EVALUE 1.00e-108
 ; US-10-029-386-1382

Query Match 16.1%; Score 202.8; DB 14; Length 578;
 Best Local Similarity 94.6%; Pred. No. 1.6e-54;
 Matches 210; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
 QY 694 TGAGCGTGGCTGACCGGGATGCTCCAGTGTGTCTTTGGCATCACGGACACAGAGAA 753
 Db 213 TCAGAGTGGCTGACCGGGATGCTCCAGTGTGTCTTTGGCATCTGTGGACACAGAGAA 272
 QY 754 CAACCCAGCACTGCCAGGAACACAGGCGCTGGTGTATAGGCATCTCTGGTGGTCAATCGG 813
 Db 273 CAACCCAGCACTGCCAGGAACACACGCACTGGTGTATAGGCATCTCTGGTGGTCAATCAG 332
 QY 814 GGTGTCCCTTGGCATGAACACAGGATATGCCATCAACCGCTCCCGGACCTGCCCCCGG 873
 Db 333 GGTGTACCATTGGCATGAACACAGGATATGCCATCAATCCGTCGCGGACCTGCCCCCGG 392
 QY 874 CATCTTCACTTTCATTTGGTGGGCAACAGGCTTTCAG 915
 Db 393 CATCTTCACTTTCATTTGGTGGGCAACAGGCTTTCAG 434

RESULT 12
 US-10-029-386-15084
 ; Sequence 15084, Application US/10029386
 ; Publication No. US20030194704A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Penn, Sharron G.

```

; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.65
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.72
; OTHER INFORMATION: EST HUMAN HIT: AA295848.1, EVALUAE 7.00e-85
; OTHER INFORMATION: HIT HIT: g114720872, EVALUAE 1.00e-94
; OTHER INFORMATION: SWISSPROT HIT: O14520, EVALUAE 1.00e-24
US-10-029-386-14576

Query Match      13.2%; Score 166.4; DB 14; Length 176;
Best Local Similarity 96.6%; Pred. No. 5.1e-43;
Matches 170; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy      975 GTGGCATCATCTACCTGGTCTTCATTGGTCTCCACCATCCACGGGAGCCCTGAAATGG 1034
Db      1 GTGGCATCATCTACCTGGTCTTCATTGGTCTCCACCATCCACGGGAGCCCTGAAATGG 60

Qy      1035 AGGATTCCTGGCGGTATGAAGACACGGGNATACCGTATTGGCCCAAGATGGGATCTCATG 1094
Db      61 AGGACTCTTGGCGGTATGAAGACACGGGNATACCGTATTGGCCCAAGATGGGATCTCATG 120

Qy      1095 AACCCACGATCTCTCCCTCACCCCGCTCTCTGTGAGCCCTGCGCAACAGATCTTCA 1150
Db      121 AACCCATGATCTCTCCCTCACCCCTCATCTCCGTGAGCCTTGCCACAGATCTTCA 176

RESULT 14
US-10-156-761-7179

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/ Sequence 7179, Application 08710138761
 / Publication No. US20030119018A1
 /
 / GENERAL INFORMATION:
 / APPLICANT: OMURA, SATOSHI
 / APPLICANT: IKEDA, HARUO
 / APPLICANT: ISHIKAWA, JUN
 / APPLICANT: HORIKAWA, HIROSHI
 / APPLICANT: SHIBA, TADAYOSHI
 / APPLICANT: SAKAKI, YOSHIYUKI
 / APPLICANT: HATTORI, MASAHIRA
 /
 / TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
 /
 / FILE REFERENCE: 249-262
 / CURRENT APPLICATION NUMBER: US/10/156,761
 /
 / CURRENT FILING DATE: 2002-05-29
 / PRIOR APPLICATION NUMBER: JP 2001-204089
 /
 / PRIOR FILING DATE: 2001-05-30
 / PRIOR APPLICATION NUMBER: JP 2001-272697
 /
 / PRIOR FILING DATE: 2001-08-02
 / NUMBER OF SEQ ID NOS: 15109
 / SEQ ID NO 7179

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; life: DNA
; ORGANISM: Streptomyces avermitilis
;
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(843)
;
US-10-156-761-7179

Query Match          10.5%; Score 132; DB 14; Length 843;
Best Local Similarity 51.1%; Pred. No. 1.3e-31;
Matches 337; Conservative 0; Mismatches 320; Indels 3; Gaps 1.7

Qy 365 GGAGGTACCTTGGTGTCACTTGGGTTTGGCTTCGGAGTCACCATGGGAGTGCACGTG 424
      |||||
Db 145 GSAACACACACAGCATCGCGTGGCGTCGGGCATCGCGGTCAACATGGGCGTGTATGTC 204
      |||||
Qy 425 GCAGGCGCGCATCTCGGAGCCACATGAACGCGAGCTGTGACCTTTGTCTAACTGTGCGGTG 484
      |||||
Db 205 GCGGCGGGCTGAGCGGTGGCGATCTCAACCCGCGGTGACGTCATCTCTCGCGCGGTC 264
      |||||
Qy 485 GGGCGGTGCCCTGGAGGAAGTTTCCGGTCTATGTCTGGGGCAGTTCTCTGGGTCCCTTC 544
      |||||
Db 265 AAGGGTTTCCGTGGAGCAAGGTGCGGCCCTACGCGGTGGCCAGACGCTCGGCGCCTTC 324
      |||||
Qy 545 CTGGCGGTGCCACCATCTACAGTCTCTTCTACACGCCCATTTCTCCACTTTTTCGGTGGGA 604
      |||||
Db 325 GTGGCGGCCCTCTCTGTGCGCTGGAATACACCGAGGCGCTGGGCGAAGCCGACCCCGGC 384
      |||||

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QY 605 CAGCTGATGGTGCACCGGTCCTCGCTACAGCTGGCATTTTGGCCACCTACTCTCTGAT 664
DB 385 CACACCCCTCAAGACGCGAGGGCGTGTCTTCCACGCTCCCGGCCAACCGCAACCTG 444
QY 665 CACATGACATTTGGGGGGCTTCTGATGAGGCGTGGCTGACCGGGATGCTCCAGCTG 724
DB 445 CCGGTCACAGATGGGGCGCGTTCGCGACACAGGTCATCGGTACCGCATCTCTCTGCTG 504
QY 725 TGTCTCTTCGCGCATCAGGACGAGGAGAACACCCAGACACTGCCAGGAACAGAGCGCTG 784
DB 505 CTGATCTCTCGCCATCAGGACCTGTCTACACGCGCCCGCGGCCAACCTGGCCCGCTTC 564
QY 785 GTGATAGGCATCTCTGCTGTCATCATCGGGGTGTCCTTTGGCATGAACACAGGATATGCC 844
DB 565 ATCATCGGCTGCTGCTGCGCATCGCATGGCTGGGGGACCAACCGCGGCTACGCG 624
QY 845 ATCAACCCGTCGGGACCTGCCCCCGCATCTTCACTTCACTTCTGCTGGTGGGCA-- 902
DB 625 ATCAACCCGCGACGCGACTTCGGTCCCCCGGCTGGCCAGCTTCATCAGCGGCTACGCG 684
QY 903 -AACAGGCTTCAGCAATCGGAGAACTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 961
DB 685 GCATGGGAGATCAGTACGGGAATCTTACTTCTGGTGGTGGTGGTGGTGGTGGTGGTGG 744
QY 962 GGTGCTATCTAGTGGGATCATCTACTGCTGCTTCTTCACTTGGTCCACCATCCACGGGAG 1021
DB 745 GCGGCTCTGCTCGGCGGGTCTGTGTACAGTTCTTCTGTTGGCGGCTTCTGCGGACGCG 804

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RESULT 15

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US-10-156-761-1
; Sequence 1, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRU
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 1
; LENGTH: 9025608
; TYPE: DNA
; ORGANISM: Streptomyces avermitilis
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (418715)
; OTHER INFORMATION: a, t, c, g, other or unknown
US-10-156-761-1

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Query Match 10.5%; Score 132; DB 14; Length 9025608;
Best Local Similarity 51.1%; Pred. No. 7.9e-30;
Matches 337; Conservative 0; Mismatches 320; Indels 3; Gaps 1;

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DB 8574461 GGAACACACGACAGCATCGGTCGGGCTGGGGCATCGGGTGTATGTC 8574520
QY 425 GCAGGCGGCTCTCTGAGCCACATGAACAGGCTGTGACCTTTGCTAACTGTGGCTG 484
DB 8574521 GCGGCGGCTGAGCGGTGGGCTACTCAACCCCGCGGTGACGGTCACTCTGCGCGCTTC 8574580

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DB 8574581 AAGGGTTTCCGTTGGAGCAAGTTCGCGCTTACGCGTGGGCCAGACGCTCGGGGCTTC 8574640
QY 545 CTGGCGGCTGCGCACCATCTACAGTCTCTTTCACACGGCCATTCTCCACTTTTCGGGTGGA 604
DB 8574641 GTGGGGCCCTCTCTGTCGCTGGAACTACACCGAGGGCTGGCGAAGGCCGACCCCGC 8574700
QY 605 CAGCTGATGTGACCGGTCCTCGCTACAGCTGGCATTTTGGCCACCTACTCTCTGAT 664
DB 8574701 CACACCCCTCAAGACGCGAGGGGTGTCTTCCACGCTCCCGGCCAACCGCAACCTG 8574760
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DB 8574761 CCGGTCACAGATGGGGCGCGTTCGCGACACAGGTCATCGGTACCGCATCTCTCTGCTG 8574820
QY 725 TGTCTCTTCGCGCATCAGGACGAGGAGAAACACCCAGCACTGCCAGGAACAGAGCGCTG 784
DB 8574821 CTGATCTCTGCGCATCAGGACCTGCTCAACAGCGCCCGCGGCCAACCTGGCCCGCTTC 8574880
QY 785 GTGATAGGCATCTCTGTCGTCATCATCGGGGTGTCCTTTGGCATGAACACAGGATATGCC 844
DB 8574881 ATCATCGGCTGCTGTCGTCGATCGGCATGGCTGGGGCACCAACCGCGGCTACGCG 8574940
QY 845 ATCAACCCGTCGGGACCTGCCCCCGCATCTTCACTTCACTTCTGCTGGTGGGCA-- 902
DB 8574941 ATCAACCCGCGACGCGACTTTCGCTCCCGGCTGGCCAGCTTTCATCAGCGGCTACGCG 8575000
QY 903 -AACAGGCTTCAGCAATGGGGAGAACTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 961
DB 8575001 GCATGGCGAGATCAGTACGGGAATCTTCTACTTCTGGGTGGCGATCATCGGTCCGCTGATC 8575060
QY 962 GGTGCTATCTAGTGGGATCATCTACTGCTGCTTCTTCACTTGGTCCACCATCCACGGGAG 1021
DB 8575061 GCGGCTCTGCTCGGCGGGTCTGTGTACAAAGTTCTTTCGTGGGCGCGGTTCTCTGCGCGCGCG 8575120

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Search completed: February 19, 2004, 22:03:38
Job time : 3447 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 19, 2004, 21:06:08 ; Search time 590 Seconds
(without alignments)
122.397 Million cell updates/sec

Title: US-09-849-980B-1

Perfect score: 1794

Sequence: 1 MVQASGRRSTRGSKMVSWS.....NRSSVHPAPPLHESMALEHF 342

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 809742 seqs, 211153259 residues

Total number of hits satisfying chosen parameters: 809742

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
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- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
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- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
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- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09D_PUBCOMB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10D_PUBCOMB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	1794	100.0	342	9	US-09-849-980B-1
2	1631	90.9	346	15	US-10-093-463-174
3	702	39.1	292	14	US-10-177-293-10
4	463.5	25.8	126	15	US-10-094-749-2184
5	432.5	24.1	281	14	US-10-156-761-14729
6	321.5	17.9	249	14	US-10-156-761-14492
7	308.5	17.2	264	14	US-10-156-761-14193
8	307.5	17.1	234	10	US-09-769-787-9
9	269	15.0	58	14	US-10-029-386-27867
10	236.5	13.2	323	15	US-10-295-027-254
11	226.5	12.6	265	14	US-10-097-340-12
12	226.5	12.6	265	14	US-10-171-311-16
13	200	11.1	107	9	US-09-867-550-282
14	184	10.3	249	15	US-10-409-701-15
15	184	10.3	249	15	US-10-310-154-606

Sequence 55, Appl
Sequence 84, Appl
Sequence 840, Appl
Sequence 840, Appl
Sequence 4522, Ap
Sequence 6263, Ap
Sequence 1, Appl
Sequence 21, Appl
Sequence 15, Appl
Sequence 63, Appl
Sequence 233, Appl
Sequence 460, Appl
Sequence 607, Appl
Sequence 364, Appl
Sequence 3000, Ap
Sequence 12, Appl
Sequence 1707, Ap
Sequence 14065, A
Sequence 14563, A
Sequence 96, Appl
Sequence 9153, Ap
Sequence 914, App
Sequence 14563, A
Sequence 34, Appl
Sequence 34, Appl
Sequence 3, Appl
Sequence 3651, Ap
Sequence 5741, Ap
Sequence 34, Appl

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US-10-106-698-4522
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US-10-106-698-6263
US-10-396-943-1
US-10-216-408-21
US-09-864-711-15
US-09-981-353-63
US-10-314-669-233
US-10-295-027-460
US-10-310-154-607
US-10-389-566-364
US-09-864-408A-3000
US-10-396-943-12
US-10-369-493-1707
US-10-369-493-14065
US-09-989-442-96
US-09-989-442-142
US-10-156-761-9153
US-09-925-301-914
US-10-156-761-14563
US-09-795-693-34
US-10-156-239-34
US-10-199-485-34
US-09-834-998A-3
US-09-738-626-3651
US-09-738-626-5741
US-09-895-913A-34

ALIGNMENTS

RESULT 1
US-09-849-980B-1
; Sequence 1, Application US/09849980B
; Patent No. US20020123611A1
; GENERAL INFORMATION:
; APPLICANT: SANTEN PHARMACEUTICAL CO., LTD.
; TITLE OF INVENTION: NO. US20020123611A1 Polypeptide Having Water Channel
; TITLE OF INVENTION: Activity and DNA sequence
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SANTEN PHARMACEUTICAL CO., LTD.
; STREET: 9-19 Shimoshinjo 3-chome Higashiyodogawa-Ku
; CITY: Osaka
; STATE: Osaka
; COUNTRY: JAPAN
; ZIP: 533-0021
; MEDIUM TYPE: Diskette, 3.5 inch, 1.44 MB, storage
; COMPUTER: IBM PS/2 or compatibles
; OPERATING SYSTEM: WINDOWS 95/97
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/849,980B
; FILING DATE: 19-OCT-1999
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/JP98/01371
; FILING DATE: 27-MAR-1998
; APPLICATION NUMBER: JP 09-094845
; FILING DATE: 28-MAR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Burton A. Amernick
; REGISTRATION NUMBER: 24852
; REFERENCE/DOCKET NUMBER: 1581/00156
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)331-7111
; TELEFAX: (202)293-6229
; INFORMATION FOR SEQ ID NO: 1:


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; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 14729
; LENGTH: 281
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-14729

Query Match      24.1%; Score 432.5; DB 14; Length 281;
Best Local Similarity 36.6%; Pred. No. 1.3e-35;
Matches 98; Conservative 45; Mismatches 102; Indels 23; Gaps 6;

QY 33 MYREFLAEPMSYVMVFGVLSVAHMLNKK-----YGSYLVNVLGFGVGTWGVHVA 85
DB 10 LIGLSAEFAGTMILIFGAGVVAQVAGGALTTTPPGGLGNHDSIAWANGIGVTWGVYA 69
QY 86 GRISGAHMAAATFANCALGRVPWRKFPVVLGQFLGSLAAATYLSLFTAILHFSGGQ 145
DB 70 ARLSGAHLNPAVTTLAAPKGFWSKVARYAQTUGAFVAALLVRNWTTEALAKADPGH 129
QY 146 LMTGEPVATAGIPATY-----LPDHMTLWRGFLNEAWLTGMLQLCLFPATTDQENNPAL 198
DB 130 TL-----KTQGVFSTLPANGNPNLPVHE--WGAFRDOVIGTALLLLIAILDOLLNTPG 182
QY 199 PGTALVIGILVVIIGVSLGMNTGYAINPSRDLPPRIFFTIAGWGKQVFSN-GENWVWP 257
DB 183 ANLAPFIIGLVVAIGMANGTNAGYAINPARDGPRPLASFTICGSAWRDQYCNFYFWVP 242
QY 258 VVAPILGAYLGGIYLVFTGSTIP-REP 284
DB 243 IIGPLIGLGGVYVFFVGRFLPTAEP 270

RESULT 6
US-10-156-761-14492
; Sequence 14492, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 14492
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-14492

Query Match      17.9%; Score 321.5; DB 14; Length 249;
Best Local Similarity 34.1%; Pred. No. 2.3e-24;
Matches 87; Conservative 43; Mismatches 94; Indels 31; Gaps 10;

QY 37 FLAEFMSTYVMVFGVLSVAHMLV---NKKYGSYLVNVLGFGVGTWGVHVAGRISGAHM 93
DB 7 FVGEIIGTAILIFGAGVCAAVTLRYSKARSGVWVIAFGWGFVGLAGYTAAPLSGGHL 66

; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 14492
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-14492

Query Match      17.2%; Score 308.5; DB 14; Length 264;
Best Local Similarity 32.6%; Pred. No. 5.4e-23;
Matches 85; Conservative 43; Mismatches 104; Indels 29; Gaps 8;

QY 37 FLAEFMSTYVMVFGVLSVAHMLV---NKKYGSYLVNVLGFGVGTWGVHVAGRISGAHM 93
DB 7 FIGETIGTAVLILGGGVCAAVTLKASKARNAGWLAITFGWGFVAVLTAVVISAPLSGAHL 66
QY 94 NAAVTFANCALGRVPWRKFPVVLGQFLGSLAAATYLSLFTYAI-LHFSGGQLMVTGPV 152
DB 67 NPAVTIA-LAIKNDNWSNVPTYWAGQLLGAMTGAALVWVYVYQGFHAHLTDHEI-VGSPG 124
QY 153 ATA-----GIFATYLPDHMTLWRGFLNEAWLTGMLQLCLFPATTDQENN 195
DB 125 AOATYTKAVEAQETGAGPVGVFSTG-FEVRNVVNQLATEIIGTVVLVLAITQGLNDNG 183
QY 196 PALPGTEALVIGILVVIIGVSLGMNTGYAINPSRDLPPRIFFTIAGWGKQVFSNGENW-- 253
DB 184 NGLGTIGALITSLVWVSIGLSLGGPTGYAINPARDLGPRIHVHALLPLPNK---CGSDWSY 240
QY 254 WWPVVPVAPLGLGAYLGGIYLV 274
DB 241 AWIPVVGPLIGAAIAGIYV 261

RESULT 8
US-09-769-787-9
; Sequence 9, Application US/09769787
; Publication No. US20030091577A1
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 14729
; LENGTH: 281
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-14729

Query Match      24.1%; Score 432.5; DB 14; Length 281;
Best Local Similarity 36.6%; Pred. No. 1.3e-35;
Matches 98; Conservative 45; Mismatches 102; Indels 23; Gaps 6;

QY 33 MYREFLAEPMSYVMVFGVLSVAHMLNKK-----YGSYLVNVLGFGVGTWGVHVA 85
DB 10 LIGLSAEFAGTMILIFGAGVVAQVAGGALTTTPPGGLGNHDSIAWANGIGVTWGVYA 69
QY 86 GRISGAHMAAATFANCALGRVPWRKFPVVLGQFLGSLAAATYLSLFTAILHFSGGQ 145
DB 70 ARLSGAHLNPAVTTLAAPKGFWSKVARYAQTUGAFVAALLVRNWTTEALAKADPGH 129
QY 146 LMTGEPVATAGIPATY-----LPDHMTLWRGFLNEAWLTGMLQLCLFPATTDQENNPAL 198
DB 130 TL-----KTQGVFSTLPANGNPNLPVHE--WGAFRDOVIGTALLLLIAILDOLLNTPG 182
QY 199 PGTALVIGILVVIIGVSLGMNTGYAINPSRDLPPRIFFTIAGWGKQVFSN-GENWVWP 257
DB 183 ANLAPFIIGLVVAIGMANGTNAGYAINPARDGPRPLASFTICGSAWRDQYCNFYFWVP 242
QY 258 VVAPILGAYLGGIYLVFTGSTIP-REP 284
DB 243 IIGPLIGLGGVYVFFVGRFLPTAEP 270

RESULT 6
US-10-156-761-14492
; Sequence 14492, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 14492
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-14492

Query Match      17.9%; Score 321.5; DB 14; Length 249;
Best Local Similarity 34.1%; Pred. No. 2.3e-24;
Matches 87; Conservative 43; Mismatches 94; Indels 31; Gaps 10;

QY 37 FLAEFMSTYVMVFGVLSVAHMLV---NKKYGSYLVNVLGFGVGTWGVHVAGRISGAHM 93
DB 7 FVGEIIGTAILIFGAGVCAAVTLRYSKARSGVWVIAFGWGFVGLAGYTAAPLSGGHL 66
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; GENERAL INFORMATION:
; APPLICANT: Microbial Technics Limited
; APPLICANT: Gilbert, Christophe FG
; APPLICANT: Hansbro, Philip M
; TITLE OF INVENTION: Proteins
; FILE REFERENCE: PWC/P21129WO
; CURRENT APPLICATION NUMBER: US/09/769,787
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: GB 9816337.1
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: US 60/125164
; PRIOR FILING DATE: 1999-03-19
; NUMBER OF SEQ ID NOS: 388
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 9
; LENGTH: 234
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-09-769-787-9

Query Match      17.1%; Score 307.5; DB 10; Length 234;
Best Local Similarity 32.5%; Pred. No. 5.7e-23;
Matches 83; Conservative 49; Mismatches 90; Indels 33; Gaps 10;

Qy 33 MYREFLAFPMGYVMVFLGSAHMLNKKYGYLG---VNLGFGFGVTGMVHVAGRIS 89
Db 1 MNNEFLGFEFLGTLILLGNGVAGVLPKTKSSGIVITMGWGIAVAVAFVSGKLS 60
Qy 90 GAHMAAATFANCALGRVPRKFPVYVLGQFLGSLAAATYISLF---YTALHFSGQL 146
Db 61 PAYLNPATVIGVALKGGUPWASVLPYILQAQAGMLGQILVWLOPKHYEA--BENAGNI 118
Qy 147 MV---TGPVATAGIPATYLPDHTMLWRGFLNEAWLTMQLCLPATTQDNNPALPGTEA 203
Db 119 LATSTGPA-----IKTVS---NLSEILGTFVLVITFALGLYDQAGI-GTFA 165
Qy 204 LVIGILVVIIGVSGMTGYAINPSRDLPPRIFTFIAGWKQVFSNGENWV---WVPVVA 260
Db 166 --VGLTIVIGLSLGGTTGYALNPARDLGRIMHSIL----PIPNKGDGDSYAWIPVVG 219
Qy 261 PLLGALGGIYLVLP 275
Db 220 PVIGAALAVLVSFLP 234

RESULT 9
US-10-029-386-27867
; Sequence 27867, Application US/10029386
; Publication No. US20030194704A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Hanzel, David K.
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR C
; FILE REFERENCE: AECOMICA-X-2
; CURRENT APPLICATION NUMBER: US/10/029,386
; CURRENT FILING DATE: 2001-12-20
; NUMBER OF SEQ ID NOS: 34288
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 27867
; LENGTH: 58
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL137070.3
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 0.81
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.94
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.2
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.55
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.65
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.72
; OTHER INFORMATION: SWISSPROT HIT: O14520, EVALUATION = 2.00e-24

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US-10-029-386-27867
Query Match      15.0%; Score 269; DB 14; Length 58;
Best Local Similarity 93.1%; Pred. No. 7e-20;
Matches 54; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 269 GIIVLVFIGSTIPREPLKLEDSVAYEDHGITVLPKMGSHPEPTISPLTPVSPANRSS 326
Db 1 GIIVLVFIGSTIPREPLKLEDSVAYEDHGITVLPKMGSHPEPTISPLTPVSPANRSS 58

RESULT 10
US-10-295-027-254
; Sequence 254, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynn, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; TITLE OF INVENTION: Methods of Screening for Modulators of Cancer
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 09/663,733
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 254
; LENGTH: 323
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-295-027-254

Query Match      13.2%; Score 236.5; DB 15; Length 323;
Best Local Similarity 28.6%; Pred. No. 1.6e-15;
Matches 71; Conservative 36; Mismatches 88; Indels 53; Gaps 9;

Qy 39 AEFMSTYVMVFLGSLVAH-----MVLNKKYGSYLVNLGFGFGVTGMVHVAGR 87
Db 40 AEFMLAIFVLLSLGSGTINMGTEKPLFDMVL-----ISLCFLSLATMVQCFFGH 90
Qy 88 ISGAHMAAATFANCALGRVPRKFPVYVLGQFLGSLAAATYISLFTAILHFSGQLM 147
Db 91 ISGHHNPATVAVMVCRTKSIKSIKSIKSIKSIKSIKSIKSIKSIKSIKSIKSIKSIK 135
Qy 148 VTGPVATAGIPATYLPDHTMLWRGFLNEAWLTMQLCLPATTQDNNPALPGTEALVIG 207

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Db 136 VTTPSVVGLGVTWVHGNLTAGHGLVLIITFQLVFTTFASCDKRTD-VTGSALAIIG 194
QY 208 ILVVIIGVSLGMN-TGYAINPSRDLPPRIFTFIAGWGKOVFNGENWM--WVWVAPLIIG 264
Db 195 FSVA-IGHLPAINYTGASNNPARSFGPAV-----IMGNWENHWIYW---VGPPIIG 240
QY 265 AYLGGIY 272
Db 241 AVLAGGLY 248

RESULT 11
US-10-097-340-12
; Sequence 12, Application US/10097340
; Publication No. US20030087250A1
; GENERAL INFORMATION:
; APPLICANT: John MONAHAN
; APPLICANT: Manjula GANNAVARAPU
; APPLICANT: Sebastian HOERSCHE
; APPLICANT: Shubhangi KAMATKAR
; APPLICANT: Steve G. KOVATS
; APPLICANT: Rachel E. MEYERS
; APPLICANT: Michael MORRISSEY
; APPLICANT: Peter OLANDT
; APPLICANT: Ami SEN
; APPLICANT: Peter VEIBY
; APPLICANT: Gordon B. MILLS
; APPLICANT: Robert C. EAST, Jr.
; APPLICANT: Karen LU
; APPLICANT: Rosemarie SCHMANDT
; APPLICANT: Xumei ZHAO
; APPLICANT: Karen GLATT
; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,
; TITLE OF INVENTION: Assessment, Prevention, and Therapy of Ovarian Cancer
; FILE REFERENCE: MRI-030
; CURRENT APPLICATION NUMBER: US/10/097,340
; PRIOR FILING DATE: 2002-03-14
; PRIOR APPLICATION NUMBER: 60/276,025
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/325,149
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/276,026
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/324,967
; PRIOR FILING DATE: 2001/09/26
; PRIOR APPLICATION NUMBER: 60/311,732
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/325,102
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/323,580
; PRIOR FILING DATE: 2001-09-19
; NUMBER OF SEQ ID NOS: 363
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 265
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-097-340-12

Query Match 12.6%; Score 226.5; DB 14; Length 265;
Best Local Similarity 27.4%; Pred. No. 1.3e-14;
Matches 80; Conservative 45; Mismatches 110; Indels 57; Gaps 11;
QY 26 QEILQRMVREFLAEFMSTYVMVFGLSVAHMLNKKYGS-----YLVGNLGFSGFTWVG 81
Db 3 KEVCSVAFLKAVFAEFLATLIFVFFGLGSAL-----KWPALPTTLQIALAFGLAIGTL 56
QY 82 VHVAGRISGAHMAAATFANCALGRVPRKFPVYVVGQFLGSFLAAATYLSFYTAILHF 141
Db 57 AQALGPVSGGHINPAITLALLVGNQISLLRAFFVAAQLVGAITAGAGILYGV----- 108
QY 142 SGGQLMVTGPVATAGIFA-TYLPDHMTLWRGFLNEAWLTGMLQLCLFATTDQNNPALPG 200

RESULT 13
US-09-867-550-282
; Sequence 282, Application US/09867550

Db 109 -----APLNARGNLAVNANNNTTQGMVVELIITFQALCIFASTDSRRTSPV-G 159
QY 201 TEALVIGILVVIIGVSLGMN-TGYAINPSRDLPPRIFTFIAGWGKOVFNGENWMVWV 259
Db 160 SPALSIG-LSVTGLHLVGIFYTGCSMNPARSFGPAV-----VMNRFSPAHHWVFW 208
QY 260 APLIGAYLGGII--YLVFISTIPREPLKLEDSVAYEDHGITVLPKMGSHPEP 309
Db 209 GPVGAVALAAILFYLLFPNS-----LSLSERVAI-----IKGTIPEP 245

RESULT 12
US-10-171-311-16
; Sequence 16, Application US/10171311
; Publication No. US20030087270A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Chen, Yan
; APPLICANT: Zhao, Xumei
; APPLICANT: Monahan, John
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Glatt, Karen
; APPLICANT: Gannavarapu, Manjula
; APPLICANT: Hoeresh, Sebastian
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY
; TITLE OF INVENTION: OF CERVICAL CANCER
; FILE REFERENCE: MRI-035
; CURRENT APPLICATION NUMBER: US/10/171,311
; CURRENT FILING DATE: 2002-06-12
; PRIOR APPLICATION NUMBER: US 60/298,159
; PRIOR FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 60/298,155
; PRIOR FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 60/335,936
; PRIOR FILING DATE: 2001-11-14
; NUMBER OF SEQ ID NOS: 238
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 265
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-171-311-16

Query Match 12.6%; Score 226.5; DB 14; Length 265;
Best Local Similarity 27.4%; Pred. No. 1.3e-14;
Matches 80; Conservative 45; Mismatches 110; Indels 57; Gaps 11;
QY 26 QEILQRMVREFLAEFMSTYVMVFGLSVAHMLNKKYGS-----YLVGNLGFSGFTWVG 81
Db 3 KEVCSVAFLKAVFAEFLATLIFVFFGLGSAL-----KWPALPTTLQIALAFGLAIGTL 56
QY 82 VHVAGRISGAHMAAATFANCALGRVPRKFPVYVVGQFLGSFLAAATYLSFYTAILHF 141
Db 57 AQALGPVSGGHINPAITLALLVGNQISLLRAFFVAAQLVGAITAGAGILYGV----- 108
QY 142 SGGQLMVTGPVATAGIFA-TYLPDHMTLWRGFLNEAWLTGMLQLCLFATTDQNNPALPG 200
Db 109 -----APLNARGNLAVNANNNTTQGMVVELIITFQALCIFASTDSRRTSPV-G 159
QY 201 TEALVIGILVVIIGVSLGMN-TGYAINPSRDLPPRIFTFIAGWGKOVFNGENWMVWV 259
Db 160 SPALSIG-LSVTGLHLVGIFYTGCSMNPARSFGPAV-----VMNRFSPAHHWVFW 208
QY 260 APLIGAYLGGII--YLVFISTIPREPLKLEDSVAYEDHGITVLPKMGSHPEP 309
Db 209 GPVGAVALAAILFYLLFPNS-----LSLSERVAI-----IKGTIPEP 245

RESULT 13
US-09-867-550-282
; Sequence 282, Application US/09867550

Patent No. US20020082206A1
GENERAL INFORMATION:
APPLICANT: Leach, Martin D.
APPLICANT: Mehraban, Fuad,
APPLICANT: Conley, Pamela
APPLICANT: Law, Debbie
APPLICANT: Topper, James
TITLE OF INVENTION: No. US20020082206A1el Polynucleotides from Atherogenic Cells and
FILE REFERENCE: 21402-013 (Cura-313)
CURRENT APPLICATION NUMBER: US/09/867,550
CURRENT FILING DATE: 2001-09-20
PRIOR APPLICATION NUMBER: USSN 60/208,427
PRIOR FILING DATE: 2000-05-30
NUMBER OF SEQ ID NOS: 2125
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 282
LENGTH: 107
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: VARIANT
LOCATION: (1)
OTHER INFORMATION: wherein Xaa may be any one of Leu or Ser or Trp or Pro or Gln or
NAME/KEY: VARIANT
LOCATION: (23)
OTHER INFORMATION: wherein Xaa may be any one of Glu or Gln or Lys
US-09-867-550-282
Query Match 11.1%; Score 200; DB 9; Length 107;
Best Local Similarity 46.2%; Pred. No. 1.8e-12;
Matches 37; Conservative 14; Mismatches 29; Indels 0; Gaps 0;
Qy 203 ALVIGLVIIGVSLGNTGVAINPSRDLPPRIFTFIAGWGKQVFSNGENWVWVVPVAPL 262
Db 5 ALIIGLLVAAIGACAGSSXAWAINPARDLRPPGVFRFAGWGESALPGKQNTFWVPIAPL 64
Qy 263 LGAYLGGIYLVFIGSTIPR 282
Db 65 IGGPIGGALYSFAIRFPLPK 84
RESULT 14
US-10-409-701-15
Sequence 15, Application US/10409701
Publication No. US20030221224A1
GENERAL INFORMATION:
APPLICANT: Zinselmeier, Chris
APPLICANT: Helentjaris, Timothy G.
TITLE OF INVENTION: Enhanced Silk Exsersion Under Stress
FILE REFERENCE: 1421
CURRENT APPLICATION NUMBER: US/10/409,701
CURRENT FILING DATE: 2003-04-08
PRIOR APPLICATION NUMBER: US 60/370,796
PRIOR FILING DATE: 2002-04-08
NUMBER OF SEQ ID NOS: 26
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 15
LENGTH: 249
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Xaa = any amino acid
US-10-409-701-15
Query Match 10.3%; Score 184; DB 15; Length 249;
Best Local Similarity 26.6%; Pred. No. 2.5e-10;
Matches 69; Conservative 41; Mismatches 99; Indels 50; Gaps 11;
Qy 34 VREFLAEFMSVTVMVFLGSLVAHVLNKKYG-----SYLGVNLGFGFGVTWGV 82
Db 18 IKAYVAEFATLLFFVAGVGSAL-----AYQLTNGGALDPAGLVAIAIAHALFVGV 71

Qy 83 HVAGRIISGAHNAAVTFPANCALGRVPRKPFVYVVLGQFLGSFLAAATYISLFTAILHFS 142
Db 72 SVAANISGGHLNPAVTFGLAVGGHITILTGTGVYVVAQLLG-----ATVACILLGFTVTH-- 124
Qy 143 GGQLWVTGCVATAGIFATYLPDHTLWRGFLNEAWLTGMLQLCLFATTDQNNPALPCTE 202
Db 125 -GKAIPH--AVAGI-----SELEGVVFVVIITFALVYTVYTAADPKKSGSLGTIA 172
Qy 203 ALVIGLVIIGVSLGNTGVAINPSRDLPPRIFTFIAGWGKQVFSNGENW--WVVPVVP 261
Db 173 PIAIGPIVGANILAAAGPFGSGSMNPARSFGPAV---AAG-----DFAGNWVYV--VGP 220
Qy 262 LLGAYLGGIY-LVFIGST 279
Db 221 LVGGGLAGLVYGDVFIGGS 239
RESULT 15
US-10-310-154-606
Sequence 606, Application US/10310154
Publication No. US20030233670A1
GENERAL INFORMATION:
APPLICANT: Edgerton, Michael D
APPLICANT: Chomet, Paul S.
APPLICANT: Adams, Thomas H
APPLICANT: Ruff, Thomas G.
APPLICANT: Agarwal, Ameeta K.
APPLICANT: Ahrens, Jeffrey E.
APPLICANT: Ball, James A.
APPLICANT: Bann, G.
APPLICANT: Bell, Erin
APPLICANT: Boddupallli, Raghava
APPLICANT: Deikman, Jill
APPLICANT: Deng, Molian
APPLICANT: Duff, Stephen M.
APPLICANT: Galligan, Meghan M.
APPLICANT: Hinchey, Brenda S.
APPLICANT: Huang, Shihshieh
APPLICANT: Johnson, G. Richard
APPLICANT: Jung, Vincent
APPLICANT: Kretzmer, Keith A
APPLICANT: Laccetti, Lucille B.
APPLICANT: Lai, Chao-Qiang
APPLICANT: Lee, Gary
APPLICANT: Lin, Jie-Yi
APPLICANT: Liu, Jingdong
APPLICANT: Lu, Bin
APPLICANT: Luethy, Michael M.
APPLICANT: Lund, Adrian
APPLICANT: Madson, Linda L.
APPLICANT: Malloy, Kathleen A.
APPLICANT: McKiel, Christine L.
APPLICANT: Miller, Philip W.
APPLICANT: Padmavathi, Manchikanti
APPLICANT: Parnell, Laurence D.
APPLICANT: Start, William G.
APPLICANT: Tennesen, Dan
APPLICANT: Vidya, K.R.
APPLICANT: Wang, Haiyun
APPLICANT: Xin, Zhanguo
APPLICANT: Xu, Nanfei
APPLICANT: Yang, Chunzhi
APPLICANT: Zeng, Xiaoping
APPLICANT: Zhang, Qiang
APPLICANT: Zhao, Yajuan
APPLICANT: Zhou, Li
TITLE OF INVENTION: Gene Sequences and Uses Thereof in Plants
FILE REFERENCE: 38-15(52796)B
CURRENT APPLICATION NUMBER: US/10/310,154
CURRENT FILING DATE: 2002-12-04
PRIOR APPLICATION NUMBER: 60/337,358

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; PRIOR FILING DATE: 2001-12-04
; NUMBER OF SEQ ID NOS: 736
; SEQ ID NO 606
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Zea mays
US-10-310-154-606

Query Match      10.3%; Score 184; DB 15; Length 249;
Best Local Similarity 26.6%; Pred. No. 2.5e-10;
Matches 69; Conservative 41; Mismatches 99; Indels 50; Gaps 11;

QY 34 VREFLAEFMSTYVMVFGVLSVAHMLNKKYG-----SYLGVNLGFGFGVTMGV 82
   : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||
Db 18 IKAYVAEFTATLLFVPAGVGSAL-----AYQLTNGGALDPAGLVIAIAHALALFVGV 71

QY 83 HVAGRISGAHMAAATFANCALGRVPWRKFPVYVLCQFLGSLAATYISLFYTAILHES 142
   || ||| ||| : ||| ||| : ||| ||| : ||| ||| : ||| ||| : |||
Db 72 SVAANISGGHLNPVTFGLAVGGHITILGVFYWVAQLIG-----ATVACLLLGFTVTH-- 124

QY 143 GGQLMVTGPVATAGIPATYLPDHMTLWRGFLNEAMLTGMLQLCLFATTDQENNPALPGTE 202
   : : : ||| ||| : : : ||| ||| : : : ||| ||| : : : |||
Db 125 -GKAIFTH--AVAGI-----SELEGVVFVWITFALVYVYVATAADPKGSLGTIA 172

QY 203 ALVIGILVVIIGVSLGMNTGYAINPSRDLPPRIFTFIAGKQVFSNGENW-WWVPVVAP 261
   : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : |||
Db 173 FTAIGFIVGANILAGFFSGGNNPARSFGPAV---AAG-----DFAGNWWVW---VGP 220

QY 262 LLGAYLGGIY-LVFIGST 279
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Db 221 LVGGGLAGLVIGDVFIGGS 239
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Search completed: February 19, 2004, 21:31:54
Job time : 592 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 19, 2004, 19:57:38 ; Search time 46 Seconds
(without alignments)
383.828 Million cell updates/sec

Title: US-09-849-980B-1

Perfect score: 1794

Sequence: 1 MVQASGHRSTRGSKMVSWS.....NRSSVHPAPPLHESMALEHF 342

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Issued Patents AA.*
- 1: /cgn2_6/ptodata/2/iaa/5A_COMB.pap.*
 - 2: /cgn2_6/ptodata/2/iaa/5B_COMB.pap.*
 - 3: /cgn2_6/ptodata/2/iaa/6A_COMB.pap.*
 - 4: /cgn2_6/ptodata/2/iaa/6B_COMB.pap.*
 - 5: /cgn2_6/ptodata/2/iaa/PTCUS_COMB.pap.*
 - 6: /cgn2_6/ptodata/2/iaa/backfiles1.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1794	100.0	342	3	US-09-381-810A-1
2	427	23.8	309	4	US-09-489-039A-10582
3	416	23.2	303	4	US-09-252-991A-22050
4	413	23.0	328	4	US-09-489-039A-9306
5	394	22.0	319	4	US-09-489-039A-9999
6	386.5	21.5	282	4	US-09-543-681A-8275
7	291.5	16.2	238	4	US-09-107-532A-5419
8	278.5	15.5	271	1	US-08-447-554-4
9	278.5	15.5	271	1	US-08-448-160-4
10	263	14.7	239	4	US-09-134-001C-4165
11	256.5	14.3	249	4	US-09-107-532A-7142
12	250	13.9	242	4	US-09-134-000C-5934
13	246	13.7	209	4	US-09-134-000C-5125
14	232.5	13.0	265	1	US-08-468-763-19
15	232.5	13.0	265	2	US-08-393-996A-19
16	230	12.8	239	4	US-09-372-422A-42
17	226	12.6	295	4	US-09-372-422A-38
18	225	12.5	232	4	US-09-328-352-6245
19	224	12.5	312	4	US-09-252-991A-31853
20	222.5	12.4	263	4	US-09-489-039A-12047
21	219	12.2	294	4	US-09-372-422A-40
22	215	12.0	249	4	US-09-372-448A-6
23	202.5	11.3	262	4	US-09-372-422A-32
24	192	10.7	269	1	US-08-447-554-5
25	192	10.7	269	1	US-08-468-763-17
26	192	10.7	269	1	US-08-448-160-5
27	192	10.7	269	2	US-08-393-996A-17

28	184	10.3	249	4	US-09-372-422A-22	Sequence 22, Appl
29	183.5	10.2	250	3	US-08-654-025-2	Sequence 2, Appl
30	182.5	10.2	250	1	US-08-234-939-2	Sequence 2, Appl
31	182.5	10.2	250	1	US-08-558-865-2	Sequence 2, Appl
32	182.5	10.2	250	3	US-08-654-025-7	Sequence 7, Appl
33	180	10.0	296	4	US-09-372-422A-20	Sequence 20, Appl
34	179	10.0	288	4	US-09-372-448A-2	Sequence 2, Appl
35	179	10.0	289	4	US-09-372-422A-2	Sequence 2, Appl
36	179	10.0	292	4	US-09-372-422A-4	Sequence 4, Appl
37	175	9.8	288	4	US-09-372-422A-12	Sequence 12, Appl
38	173	9.6	289	4	US-09-372-422A-14	Sequence 14, Appl
39	172	9.6	288	4	US-09-372-422A-16	Sequence 16, Appl
40	170	9.5	292	4	US-09-372-422A-10	Sequence 10, Appl
41	169	9.4	288	4	US-09-372-422A-18	Sequence 18, Appl
42	168	9.4	257	4	US-09-372-422A-28	Sequence 28, Appl
43	168	9.4	443	4	US-09-610-906-1	Sequence 1, Appl
44	167	9.3	262	4	US-09-976-594-347	Sequence 347, App
45	167	9.3	284	4	US-09-372-448A-4	Sequence 4, Appl

ALIGNMENTS

RESULT 1
US-09-381-810A-1
; Sequence 1, Application US/09381810A
; Patent No. 6252046
; GENERAL INFORMATION:
; APPLICANT: SANTEN PHARMACEUTICAL CO., LTD.
; TITLE OF INVENTION: NO. 6252046el Polypeptide Having Water Channel
; TITLE OF INVENTION: Activity and DNA sequence
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SANTEN PHARMACEUTICAL CO., LTD.
; STREET: 9 19 Shimoshinjo 3-chome Higashi-yodogawa-Ku
; CITY: Osaka
; STATE: Osaka
; COUNTRY: JAPAN
; ZIP: 533-0021
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 1.44 MB, storage
; COMPUTER: IBM PS/2 or compatibles
; OPERATING SYSTEM: WINDOWS 95/97
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/381,810A
; FILING DATE: 19-OCT-1999
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP09 094845
; FILING DATE: 28-MAR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Burton A. Amernick
; REGISTRATION NUMBER: 24852
; REFERENCE/DOCKET NUMBER: 1581/00156
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)331-7111
; TELEFAX: (202)293-6229
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 342 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-381-810A-1

Query Match 100.0%; Score 1794; DB 3; Length 342;
Best Local Similarity 100.0%; Pred. No. 9.6e-186;
Matches 342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MVQASGHRSTRGSKMVSWSVIAKIQEILQKRVREFLAEFMSTYVMVFGLSVAHVL 60
DB 1 MVQASGHRSTRGSKMVSWSVIAKIQEILQKRVREFLAEFMSTYVMVFGLSVAHVL 60

Qy	61	NKKYGSYLGNVLGFGCGVTMGVHVAGRISGAHMAA	VTFANCA	LGRVPWRKFPVYLGQF	120
Db	61	NKKYGSYLGNVLGFGCGVTMGVHVAGRISGAHMAA	VTFANCA	LGRVPWRKFPVYLGQF	120
Qy	121	LGSFLAAATYSLFYTAILHFSGGQLMTGPVATAGI	FATYLPD	HMTLMRGFLNEAWLTG	180
Db	121	LGSFLAAATYSLFYTAILHFSGGQLMTGPVATAGI	FATYLPD	HMTLMRGFLNEAWLTG	180
Qy	181	MLQLCLFATTTDQENNPALPGTEALVIGILVVI	IGVSLGMNTGVAIN	SRDLPRIETFFTA	240
Db	181	MLQLCLFATTTDQENNPALPGTEALVIGILVVI	IGVSLGMNTGVAIN	SRDLPRIETFFTA	240
Qy	241	GCKQVFSNGENWWWVPVAPLLGAYLGCIYLY	VFIGSTTPREPL	KLEDSVAYEDHGITV	300
Db	241	GCKQVFSNGENWWWVPVAPLLGAYLGCIYLY	VFIGSTTPREPL	KLEDSVAYEDHGITV	300
Qy	301	LPKMGSHPTISPLTPVSVSPANRSSVHPAPPLH	ESMALBHF	342	
Db	301	LPKMGSHPTISPLTPVSVSPANRSSVHPAPPLH	ESMALBHF	342	

RESULT 2

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US-09-489-039A-10582
; Sequence 10582, Application US/09489039A
; Patent NO. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709. 2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 10582
; LENGTH: 309
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-10582

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Query Match	23.8%;	Score 427;	DB 4;	Length 309;
Best Local Similarity	33.8%;	Pred. No. 8.7e-38;		
Matches	97;	Conservative 61;	Mismatches 103;	Indels 26; Gaps 8;
Qy	16	MVSWS-----VIAKIQILQRK---MYREFLAEMSTYVMVFLGSVAHM-VLNKK	63	
Db	5	MAIWSSVTTLHTIIITLQDSIMSQSTLKGQCIAEFLGTGLLFFGVGCVAAALKVAGAS	64	
Qy	64	YGSVLGNVLGFGFGVTVGVHVAGRISCAHWNAAVTFANCALGRVPWPKFPYVVLGQFLGS	123	
Db	65	FGQW-EISIIWGLGVAMAIYLTAGVSGAHLNPVATIALMLFACPEGRKRVVPFIISQFAGA	123	
Qy	124	FLAAATYSIFYTALHFSGQLMVTGPVAT---AGIFATYLPDHTMLTRGFLNEAWLTG	180	
Db	124	FCAALVYGLYNNFLDYETTHMIRSGVSLDLAGIFSTYYPHINFWQAFVEMVITA	183	
Qy	181	MLQCLFATTDOEN----NPALPQTEALVIGILVVIIGSLGMNTGYAINPSRDLPPRIIF	236	
Db	184	ILMGVILATDDGNGIPRGPLAP---LLIGLLFAVIGASMGPLTGAMNPARDIGPKAF	239	
Qy	237	TFTAGCKQVPSNGEN---WWWVPVAPLLGAYLGIIYLVFIGSTIP	281	
Db	240	AWLAGWDVAFATGKQIIPYFLVPLICAPVWGAAALGAFSYRLKIRGLHP	286	

RESULT 3

US-09-252-991A-22050
; Sequence 22050, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.

```

: TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
:
: TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
:
: FILE REFERENCE: 107196.136
:
: CURRENT APPLICATION NUMBER: US/09/252,991A
:
: CURRENT FILING DATE: 1999-02-18
:
: PRIOR APPLICATION NUMBER: US 60/074,788
:
: PRIOR FILING DATE: 1998-02-18
:
: PRIOR APPLICATION NUMBER: US 60/094,190
:
: PRIOR FILING DATE: 1998-07-27
:
: NUMBER OF SEQ ID NOS: 33142
:
: SEQ ID NO 22050
:
: LENGTH: 303
:
: TYPE: PRT
:
: ORGANISM: Pseudomonas aeruginosa
:
: US-09-252-991A-22050

```

Query Match 23.2%; Score 416; DB 4; Length 303;
Best Local Similarity 35.3%; Pred. No. 1.3e-36;
Matches 96; Conservative 56; Mismatches 94; Indels 26; Gaps 7;

[illegible]

RESULT. T 4

RES001 18
 US-09-489-039A-9306
 ; Sequence 9306, Application US/09489039A
 ; Patent NO. 6610836
 ; GENERAL INFORMATION:
 ; APPLICANT: Gary Breton et. al
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
 ; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
 ; FILE REFERENCE: 2709, 2004001
 ; CURRENT APPLICATION NUMBER: US/09/489,039A
 ; CURRENT FILING DATE: 2000-01-27
 ; PRIOR APPLICATION NUMBER: US 60/117,747
 ; PRIOR FILING DATE: 1999-01-29
 ; NUMBER OF SEQ ID NOS: 14342
 ; SEQ ID NO 9306
 ; LENGTH: 328
 ; TYPE: PRT
 ; ORGANISM: Klebsiella pneumoniae
 US-09-489-039A-9306

Query Match	23.0%	Score 413;	DB 4;	Length 328;
Best Local Similarity	33.0%	Pred. NO. 3.1e-36;		
Matches 99; Conservative	62;	Mismatches 115;	Indels 24;	Gaps 8;

Qy	3	QASGRHST-----	RGSKWSGSVI	AKTEILOR	K-WYREFLAE	PMSTVMA	VFGIG	53
Db	29	QCGHRAATGRS	BELNGRS	ROPLS	UTCVP	PMNQ	TSLTGQ	CCVAELGTGLLFFGAG 88
Qy	54	SVAHM-VLNK	KYGSYL	GVNLG	FGFGVT	MGV	AVAGR	ISGAHMNAATFANCALGRVPRK 112
Db	89	CVAAALRV	VAGAS	FGOW-BIS	ITWGLG	VMAYI	YLTG	AVSGAHNLNPATIALWLPACFERRK 147

[illegible]

RESULT 5

```

US-09-489-039A-9999
; Sequence 9999, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND
; TITLE OF INVENTION: PNEUMONIAE FOR DI
; FILE REFERENCE: 2709-2004001
; CURRENT APPLICATION NUMBER: US/09/489,
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,7
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 9999
; LENGTH: 319
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-9999

```

Query Match	22.0%;	Score 394;	DB 4;	Length 319;		
Best Local Similarity	33.7%;	Pred. No. 3.4e-34;				
Matches	95;	Conservative 50;	Mismatches 113;	Indels 24;	Gaps 5;	
Qy	8	RRSTRGKMSWSVI	AKIQEILQRKRWREFL	AEFMSITYMMVFLG	SVAHMVLNKKYGSY 67	
		: : :	: : :	: : :	: : :	
Db	43	RTSSRGVTM	-----NGSLRAQCI	AEFLGTGLFFGFC	ICLSALKLT---GAS 86	
		: : :	: : :	: : :	: : :	
Qy	68	LG---	VNLGFGFGVTMGV	VHAGRTSGAHMNA	AVTPANCALGRVPWR	KPPVVLGQFLGSF 124
		: : :	: : :	: : :	: : :	
Db	87	LGLWEICII	WGLGISLAVITAG	ISGGHLNP	AVTVALWLFACFGR	KVVPVIAQVAGAF 146
		: : :	: : :	: : :	: : :	
Qy	125	LAATAIYSLF	TALHFSGGQLWTG	PPVAT---AGIPAT	YLPDHWMTLWRGFL	NLAWLTCM 181
		: : :	: : :	: : :	: : :	
Db	147	GGAVLAILY	STLTQFETVHMWR	GSLESIQLASIF	STYPAELSI	WHAALVEVVIISM 206
		: : :	: : :	: : :	: : :	
Qy	182	LQLCLFAT	TDQENNPALPGTE	ALVIGILVVIIGV	SLGMNTGYAINPS	RDLPRIFFTFIAG 241
		: : :	: : :	: : :	: : :	
Db	207	LMGMIMALT	DDGNGVPRKPL	APLLIGILVAVIG	ASTGPLTGFMN	PARDFGPKLFTWFAG 266
		: : :	: : :	: : :	: : :	
Qy	242	WGKQVF	NGEN- www.vvpwapl.org	LYLGGIIYLV	FGISTIP 281	
		: : :	: : :	: : :	: : :	
Db	267	WGNIAMTG	RRDIPYPIPIIA	PLACACI	GAAYRFLIANNLP 308	
		: : :	: : :	: : :	: : :	

RESULT 6

RESULT 6
 US-09-543-681A-8275
 ; Sequence 8275, Application US/09543681A
 ; Patent No. 6605709
 ; GENERAL INFORMATION:
 ; APPLICANT: GARY BRETON
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
 ; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
 ; FILE REFERENCE: 2709.1002-001
 ; CURRENT APPLICATION NUMBER: US/09/543,681A
 ; CURRENT FILING DATE: 2000-04-05
 ; PRIOR APPLICATION NUMBER: US 60/128,706
 ; PRIOR FILING DATE: 1999-04-09
 ; NUMBER OF SEQ ID NOS: 8344
 ; SEQ ID NO 8275

```

; LENGTH: 282
; TYPE: PROT
; ORGANISM: Proteus mirabilis
US-09-543-681A-8275

Query Match      21.5%; Score 386.5; DB 4; Length 282;
Best Local Similarity 32.2%; Pred. No. 1.8e-33;
Matches 89; Conservative 62; Mismatches 112; Indels 13; Gaps 5

Qy      24  KIQEILQRK--MYREPLAEPMSTIVMMVFLGSAVHVMNLNKKYGSYLG---VNLGFGFGV 78
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      8  RIYMSQTKSLMGQCISEFIGTALLVFFGLGCVA--AARIAGAQLGLWEISIIWGLGV 64
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy      79  TMGVHVAGRIISGAHMNAAPVAFANCALGRVPMRKFPVTVLQFLGSFLAAATYSLSFYTAI 138
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      65  ALAVYLPATGSGAHLNPAVTVAFWLPACFERKKVIPITVIAQMLGGFFANAAVYFYINLF 124
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy      139 LHFSGGQLMTG---PVATAGIFATYLPDHWMTLWRGFLNEAWLTCMLQLCLFATTDQENN 195
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      125 IDYEQVNGIVRGQESLFTAGVSTYPAAQISVTHAFIEFVIAVLVGLIALTDDGNG 184
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy      196 PALPGTEALVIGLWIIIGVSLGMNTGYAINPSRDLPPRIPTFIAGWKQKQVPSNGEN--W 253
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      185 VPRGLAPLLIGILVAVIGGAFGFLPTGFALNPARDFGPKLVAFAPAGWGDIALTGGRDIPY 244
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy      254 WWYPPVAPLIGAVGGIIYLVFIIGSTTIREPLKLED 289
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      245 FLVPLIAPMTGGILGALAYRKLIGRHLPCDPTCKIEN 280
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

```

RESULT 7

US-09-107-532A-5419
US-09-107-532A, Application US/09107532A
Sequence 5419, Patent No. 6583275
GENERAL INFORMATION:
APPLICANT: Lynn A Doucette-Stamm and David Bush
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 7310
CORRESPONDENCE ADDRESS:
ADDRESSEE: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
CITY: Waltham
STATE: Massachusetts
COUNTRY: USA
ZIP: 02354
COMPUTER READABLE FORM:
MEDIUM TYPE: CD-ROM ISO9660
COMPUTER: PC
OPERATING SYSTEM: <Unknown>
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,532A
FILING DATE: 30-Jun-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/085,598
FILING DATE: 14 May 1998
APPLICATION NUMBER: 60/051571
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Ariniello, Pamela Deneke
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277
INFORMATION FOR SEQ ID NO: 5419:
SEQUENCE CHARACTERISTICS:
LENGTH: 238 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES

```
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...238
; SEQUENCE DESCRIPTION: SEQ ID NO: 5419:
US-09-107-532A-5419

Query Match      16.2%; Score 291.5; DB 4; Length 238;
Best Local Similarity 29.6%; Pred. No. 2.8e-23;
Matches 73; Conservative 50; Mismatches 103; Indels 21; Gaps 6;

QY 36 EFLAEMSTYMMVFGVLSVAHMLNK---KYGSYLVGNLGRFGVGMVHVGRIAGAH 92
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
7 QIMGEFIGTLILVLLGDGCAAVNLNKSQAQASGIVIAFGWGLAVTMVAVYISGFMGPAH 66
QY 93 MNAAVTFANCALGRVPRKFPVYVVGQFLGSLAAATIIYSLFTAILHFSGGQLMVTGPV 152
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
67 LNPVSLAWMTAGISNVLVPPITIAQVLGAFAGAILW-LSYLPHNNAKDESAILGTF 125
QY 153 ATAGIPATYLPDHTLWRGFLNEAMLTGMLQCLCLFATTDQNNPALPGTEALVIGILVVI 212
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
126 ATGPAIRNYPANVITELIG-----TFVLVLGLLAF---GQNEFAPGTNVFVAGGLILA 175
QY 213 IGVSIGMNTGYAINPSRDLPPRIFTFIAGWKQVFSNGENW---WVPVAPLLGAYLGG 269
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
176 IGLSLGGPTGYAINPARDFGRLAHAVL---PIANKGTSWAYSWVPIAGPMIGAILAV 231
QY 270 IYLVFI 276
Db : : : : :

; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-447-554-4

Query Match      15.5%; Score 278.5; DB 1; Length 271;
Best Local Similarity 31.9%; Pred. No. 8.6e-22;
Matches 92; Conservative 45; Mismatches 110; Indels 41; Gaps 13;

QY 35 REFLAEMSTYMMVFGVLSVAHMLNKYGSYLVGNLGRFGVGMVHVGRIAGAHN 94
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
11 RAVLAELATLLFVFGLSALQWASSPP-SVLIQIAVAFGLGILVQALGHVSGAHIN 68
QY 95 AAVTFANCALG-RVPRKFPVYVVGQFLGSLAAATIIYSLFTAILHFSGGQLMVTGPVA 153
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
69 PAVTVA-CLVGHVSFLRAAFYVAAQLLCAVAGAAILHEI-----TPVE 111
QY 154 TAGIFA-TYLPDHTLWRGFLNEAMLTGMLQCLCLFATTDQNNPALPGTEALVIGILVVI 212
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
112 IRGDLAVNALHNNATAGQAVTVLEFLTMQLVICIFASTDERRGDNL-GSPALLSIGFSVT- 169
QY 213 IGVSIGMNTGYAINPSRDLPPRIFTFIAGWKQVFSNGENW---WVPVAPLLGAYLGGII 271
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
170 IGHLLGIYFTGSMNPASLAPAVT-----GK--FDD-----HWFWIGPLVGAIGSL 218
QY 272 --YLVFIGSTIPREPLK---LEDSVAYEDHGITVLPKMGSHPTISP 313
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
219 YNYLFFPSAKSLQERLAVLKGLEPDTDWEEREVRRRQSVLHSPQSLP 266

RESULT 9
US-08-448-160-4
; Sequence 4, Application US/08448160
; Patent No. 5785986
; GENERAL INFORMATION:
; APPLICANT: FUSHIMI, KIYOHIDE
; APPLICANT: UCHIDA, SHINICHI
; APPLICANT: SASAKI, SEI
; APPLICANT: MARUMO, FUMIAKI
; TITLE OF INVENTION: WATER CHANNEL
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Morrison & Foerster
; STREET: 2000 Pennsylvania Ave. NW, Ste. 5500
; CITY: Washington, DC
; COUNTRY: USA
; ZIP: 20006-1812
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/448,160
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/447,554
; FILING DATE:
; APPLICATION NUMBER: US 08/126,365
; FILING DATE: 24-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Murashige, Kate H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 5100-0003.00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 887-1500
; TELEFAX: (202) 887-0763
; TELEX: 90-4030
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 271 amino acids
; TYPE: amino acid
```


RESULT 12
 US-09-134-000C-5934
 ; Sequence 5934, Application US/09134000C
 ; Patent No. 6617156
 ; GENERAL INFORMATION:
 ; APPLICANT: Lynn Doucette-Stamm et al
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
 ; TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
 ; FILE REFERENCE: 032796-032
 ; CURRENT APPLICATION NUMBER: US/09/134,000C
 ; CURRENT FILING DATE: 1998-08-13
 ; PRIOR APPLICATION NUMBER: US 60/055,778
 ; PRIOR FILING DATE: 1997-08-15
 ; NUMBER OF SEQ ID NOS: 6812
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 5934
 ; LENGTH: 242
 ; TYPE: PRT
 ; ORGANISM: Enterococcus faecalis
 US-09-134-000C-5934

Query Match 13.9%; Score 250; DB 4; Length 242;
 Best Local Similarity 30.0%; Pred. No. 8.8e-19;
 Matches 74; Conservative 42; Mismatches 111; Indels 20; Gaps 9;

QY 33 MYREFLAEPMSYVMVFGLSVAHMLNKK-KY--GSYLVNGLGFGVGTMGVHAGRIS 89
 Db 7 MFHHILSEFGTALMIVFGVGHDDVLRKYAGSGHFAITTWAFGISVVLVFG--- 63

QY 90 GAHMAAATFANCALGRVPRKFPVYVVGQFLGSLAAATYISLFTAILHFSGGQLMVT 149
 Db 64 GVCINPAMALAQAAILGMIPWSYFIPVIAEMGGICGAVIVIMYAD---HFKLSADSV- 119

QY 150 GPVATAGIPATYLPDHTLWRGFLNEAWLTGMLQCLFATTDQENNPPALPGTEALVIGIL 209
 Db 120 DPAIRNIFSTN-PNQRNLPFRNYFVETATFIFLTSILAIA-HSYETQLP-----IAVGILL 173

QY 210 VVIIGVSLGMNTGYAINPSRDLPPRIFTFIAGKQKGVFNGENWMPVVPVPLLGALYLG 269
 Db 174 VWAIGMLGGTTGFANQARDLGPRIAYQL-----PIKNTNDWQYGLIVGTAPFLGA 229

QY 270 IYLVFI 276
 Db 230 IFATLIV 236

RESULT 13
 US-09-134-000C-5125
 ; Sequence 5125, Application US/09134000C
 ; Patent No. 6617156
 ; GENERAL INFORMATION:
 ; APPLICANT: Lynn Doucette-Stamm et al
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
 ; TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
 ; FILE REFERENCE: 032796-032
 ; CURRENT APPLICATION NUMBER: US/09/134,000C
 ; CURRENT FILING DATE: 1998-08-13
 ; PRIOR APPLICATION NUMBER: US 60/055,778
 ; PRIOR FILING DATE: 1997-08-15
 ; NUMBER OF SEQ ID NOS: 6812
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 5125
 ; LENGTH: 209
 ; TYPE: PRT
 ; ORGANISM: Enterococcus faecalis
 US-09-134-000C-5125

Query Match 13.7%; Score 246; DB 4; Length 209;
 Best Local Similarity 31.5%; Pred. No. 1.9e-18;
 Matches 67; Conservative 40; Mismatches 92; Indels 14; Gaps 5;

QY 26 QEILQKRVREFLAEPMSYVMVFGLSVAHMLNKK---YGSYLVNGLGFGVGTMGV 82
 Db 2 EEKGTSMNTQLFGEFFGTMTLVILGIDGVCACAVNLKSKAFASFWVIALGGAATLAV 61

QY 83 HVAGRISGAHMAAATFANCALGRVPRKFPVYVVGQFLGSLAAATYISLFTAILHFS 142
 Db 62 YMSGYMSPAHLNPATVAMATGTGFENGWVLPYIVAVQLGFGFGLVW-LAYLPHWIT 120

QY 143 GGQLMVTGPVATAGIFATYLPDHTLWRGFLNEAWLTGMLQCLFATTDQENNPPALPGTE 202
 Db 121 EDKGAILCTGTGPAVRNY-PANV-----LTEIIGTFVLVFGLLAFS---QNDLAAGIN 170

QY 203 ALVIGILVVIIGVSLGMNTGYAINPSRDLPPRI 235
 Db 171 PMLVGLVILVGLGLSIGSGTGYAINPARDLGPRL 203

RESULT 14
 US-08-468-763-19
 ; Sequence 19, Application US/08468763
 ; Patent No. 5741671
 ; GENERAL INFORMATION:
 ; APPLICANT: Agre, Peter C.
 ; TITLE OF INVENTION: Isolation, Cloning and Expression of
 ; TITLE OF INVENTION: Transmembrane Water Channel Proteins
 ; NUMBER OF SEQUENCES: 19
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Banner & Allegretti
 ; STREET: 1001 G Street, N.W.
 ; CITY: Washington, D.C.
 ; STATE: D.C.
 ; COUNTRY: US
 ; ZIP: 20001
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/468,763
 ; FILING DATE: 06-JUN-1995
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/393,996
 ; FILING DATE: 24-FEB-1995
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Posorske, Laurence H.
 ; REGISTRATION NUMBER: 34,698
 ; REFERENCE/DOCKET NUMBER: 1107.48633
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 202 508-9100
 ; TELEFAX: 202 508-9299
 ; INFORMATION FOR SEQ ID NO: 19:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 265 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 US-08-468-763-19

Query Match 13.0%; Score 232.5; DB 1; Length 265;
 Best Local Similarity 27.6%; Pred. No. 7.9e-17;
 Matches 80; Conservative 44; Mismatches 107; Indels 59; Gaps 11;

QY 26 QEILQKRVREFLAEPMSYVMVFGLSVAHMLNKKYGS---YLVNGLGFGVGTMG 81
 Db 3 KEVCSLAPFPAVFAEFLATLIFVFFGLGSAL-----KWPSALPTILQISIAFGLAIGTL 56

QY 82 VHVAGRISGAHMAAATFANCALGRVPRKFPVYVVGQFLGSLAAATYISLFTAILH 141
 Db 57 AQALGPVSGGHINPAITLALLIGNQISLLRAVYVAAQLVGAIGAGILYWL----- 108

QY 142 SGGQLMVTGPVATAGIPA-TYLPDHTLWRGFLNEAWLTGMLQCLFATTDQENNPA 200

Db 109 -----APLNARGNLAVNANNNTTFCAMVVELILTFQALCIFSTDSRRTSPV-G 159
Qy 201 TEALVIGILVVIIGVSLGMN-TGVAINPSRDLPPRIFTFIAGWGKQVPSNGENMWVVPV 259
Db 160 SPALSIG-LSTVLGHLVGIYTGCMNPARSGPAV-----VNNRSPSHVFWV 208
Qy 260 APLGAYLGGII--YLVFIGSTIPREPLKLEDSVA-----YEDH 296
Db 209 GPIVGAMLAAILFYLLFPSS-----LSLHDRVAVVKGTYEPEDWEDH 252

RESULT 15

US-08-393-996A-19
; Sequence 19, Application US/08393996A
; Patent No. 5858702
; GENERAL INFORMATION:
; APPLICANT: Agre, Peter C.
; TITLE OF INVENTION: Isolation, Cloning and Expression of
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Banner & Allegretti
; STREET: 1001 G Street, N.W.
; CITY: Washington, D.C.
; STATE: D.C.
; COUNTRY: US
; ZIP: 20001
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/393,996A
; FILING DATE: 24-FEB-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Posorske, Laurence H.
; REGISTRATION NUMBER: 34,698
; REFERENCE/DOCKET NUMBER: 1107.48633
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202 508-9100
; TELEFAX: 202 508-9299
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 265 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-393-996A-19

Query Match 13.0%; Score 232.5; DB 2; Length 265;
Best Local Similarity 27.6%; Pred. No. 7.9e-17;
Matches 80; Conservative 44; Mismatches 107; Indels 59; Gaps 11;
Qy 26 QEILQRKMRBFLEAFEMSTYVMVFGLSVAHWLNKKYGS-----YLGWNLGFGFGVTMG 81
Db 3 KEVCSLAFKAVFAEFLATLIFVFGLSAL-----KWPSALPTILQISIAFGLAIGTL 56
Qy 82 VHVAGRISGAHNNAAVTFANGALGRVPRKFPVYVVGQFLGSLAAATYISLFTAILHF 141
Db 57 AQALGPVSGGHINPAITLALLIGNQISLLRAVFYVAAQLVGAIGAGILYWL----- 108
Qy 142 SGGQLMVTGPVATAGIFA-TYLPDHTLWRGFLNEAWLTGMQLCLFATTDENNPLPG 200
Db 109 -----APLNARGNLAVNANNNTTFCAMVVELILTFQALCIFSTDSRRTSPV-G 159
Qy 201 TEALVIGILVVIIGVSLGMN-TGVAINPSRDLPPRIFTFIAGWGKQVPSNGENMWVVPV 259
Db 160 SPALSIG-LSTVLGHLVGIYTGCMNPARSGPAV-----VNNRSPSHVFWV 208
Qy 260 APLGAYLGGII--YLVFIGSTIPREPLKLEDSVA-----YEDH 296

Db 209 GPIVGAMLAAILFYLLFPSS-----LSLHDRVAVVKGTYEPEDWEDH 252
Search completed: February 19, 2004, 21:15:44
Job time : 48 secs

